SERVICE MANUAL

Model Name : H57

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Preface

This manual is prepared for the maintenance service for H57 Micro-portable XGA DLP Projector. Maintenance procedures described in this manual are intended to isolate faulty parts and replace them in the field. It also aims to serve as a guide in procuring replacement parts for this product.

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This manual includes system overview, major system assembly, components' description, and the "Troubleshooting" making explanations on how to detect errors. It also includes a flow chart for checking or correcting faults.

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Notice:

The information found in this manual is subject to change without prior notice. Any subsequent changes made to the data herein will be incorporated in further edition.

H57 Service Manual
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Table of Contents

Chapter 1	**Introduction**	**1-1**
	Product Highlight	1-1
	Optical Specification	1-2
	Electrical Specification	1-3
	Mechanical Specification	1-7
	Environment	1-9
Chapter 2	**Disassembly of Procedure**	**2-1**
	Disassemble Lamp Module and Elevator Foot	2-1
	Disassemble Top Cover, Front Cover, Keypad Board and IR Sensor Module	2-3
	Disassemble Main Board Module, Thermal Switch	2-7
	Disassemble Fan Guider Module, Wind Tunnel Module, Lamp Driver Module, LVPS and Interrupt Switch Module	2-9
	Disassemble Color Wheel Module, Axial Fan 90x25 Module, Lamp Fan 60*60*25 and Optical Engine Module	2-14
	Disassemble Blower Fan 50*20, Thermal Sensor Board, Interrupt Switch Module, Bottom Cover and Rear Cover	2-21
Chapter 3	**Troubleshooting**	**3-1**
	Equipment Needed	3-1
	Main Procedure	3-2
Chapter 4	**Function Test and Alignment Procedure**	**4-1**
	Test Equipment	4-1
	Test Condition	4-1
	Test Display Modes and Pattern	4-2
	Inspection Procedure	4-7
Chapter 5	**Firmware Upgrade Procedure**	**5-1**
	Equipment Needed	5-1
	Hardware Setup Procedure	5-1
	Firmware Program Installation Procedure	5-2

Chapter 6 DDC Key-in Procedure 6-1
Equipment Needed 6-1
Setup Procedure 6-2
DDC Key in Procedure 6-3
Appendix A 7-1
Exploded Overview 7-1
Appendix B 7-37
Serial Number System Definition 7-37
Reader's Response 7-38

Chapter 1

Introduction

This manual is applied to 0.7”*1 DMD Color Projector with digital imaging functionality based on Digital Micromirror Device (DMD) technology. It’s the mode of single panel, 250 watt long life lamp.
The manual gives you a brief description of basic technical information to help in service and main taining the product.
Your customers will appreciate the quick response time when you immediately identify problems that occur with our products. We expect your customers will appreciate the service that you offer them.
This manual is for technicians and people who have an electronic background. Send the product back to the distributor for repairing and do not attempt to do anything that is complex or is not mentioned in the troubleshooting.

1-1 Product Highlights

- One 0.7" 576p DDR DMD projection system with 850 Typical ANSI lumen
- Contrast (FOFO) : 2500 : 1 (Typical)
- 250 - Watt Phillip Lamp, 1500hrs (user replaceable)
- High efficiency cooling system with system acoustic noise level 33dBA (Average)
- NTSC/PAL/SECAM video capability with S-video / composite / component, and HDTV(480i/p, 576i/p, 720p, 1080i)
- Light Weight : 8lbs.
- Auto detection of computer signal input.
- Auto Image.(Auto-tracking /frequency /position adjustment)
- Automatically saves adjustments for future use
- On Screen lamp life timer
- On-screen menu with 9 languages
- One DVI PC-data input (Including Analog and Digital RGB signal)
- Wireless remote controller
- Support HDCP function

1-2 Optical Specification

Technology	Single 0.7” 576p DDR DMD chip
Resolution	1024 x 576
Brightness	1100 lumens Typical output: 850 lumens
Contrast ratio	2500:1(Typical)
Uniformity	85%
Displayable colors	16.7 million colors 256 shades of gray
Color temperature	7500^{o}K adjustable form 6500^{o}K - 9500^{o}K
Lamp type	250 watt Normal and ECO-mode to 200 watts
Lamp life	2000 hours full on mode 1500 hours to 50% survival typical full on mode 3000 hours in ECO-mode 2500 hours to 50% survival typical in ECO-mode
Projection lens	F/2.6-2.85; f22.3-26.8 : 1.2x
Projection distance	1.5-10m
Throw ratio	1.57~1.87 : 1distance/width
Keystone correction	± 16° Vertical and Horizontal
Horizontal scan rate	15 – 100 kHz

Vertical scan rate 43 – 120 Hz

Aspect ratio 4:3 with support for 5:4 and 1.78:1 (anamorphic DVD & HDTV)

1-3 Electrical specification

Computer compatibility (analog and digital): All resolutions supported to UXGA - Use AD9888 + Silicon Image 169.

Input connections

- Terminal:-

DVI x 1 (DVI, Analog RGB, Component, HDTV)
Composite Video X 1.
S-Video X 1
Three RCA connectors for Component video/HDTV input
IR x 2 (Front, Top panel)
RS232 Serial Control x 1 (3 pin mini din)
Power Cord x 1

Lock One Kensington key lock hole

Tilt angle 7 degrees with elevator mechanism

Power Indicator

Red: Standby
Red on & off : Cool down in progress
Green: Projection (not abnormal)
Green on & off: Warm-up in progress

Warning Indicator

Temp - Red: High internal temperature

IR receivers Front and Top of projector.

Power Switch No toggle power switch required or wanted.

Power supply

Universal AC 100-240V 50/60 Hz with PFC input.
Used Phillip 250W Lamp.

Power consumption Standby mode - < 10 Watts 110V AC

Operational noise 33 dB(A) 250W in normal mode.
30 dB(A) 200 W in ECO-mode.

Input signal spec

Hsync Frequency 15 ~ 100 kHz
Vsync Frequency 43 ~ 120 Hz
Video Signal RGB (PC)
- Analog RGB 0.7Vp-p, 75 ohm, Separate TTL H,V Sync.
- Analog RGB 1Vp-p, 75 ohm, Sync. On Green signal
- Analog RGB 0.7Vp-p, 75 ohm, Composite TTL Sync.

Video
- Composite video 1Vp-p,75 ohm
- S-video Luminance 0.714Vp-p,75 ohm
- Chrominance 0.286Vp-p,75 ohm

Computer Compatibility (Analog)

Compatibility	Resolution	V-Sync [Hz]	H-Sync [KHz]
VGA	640x350	70	31.5
	640x350	85	37.9
	640x400	85	37.9
	640x480	60	31.5
	640x480	72	37.9
	640x480	75	37.5
	640x480	85	43.3
	720x400	70	31.5
	720x400	85	37.9
SVGA	800x600	56	35.2
	800x600	60	37.9
	800x600	72	48.1
	800x600	75	46.9
	800x600	85	53.7
XGA	1024x768	43.4	35.5
	1024x768	60	48.4
	1024x768	70	56.5
	1024x768	75	60.0
	1024x768	85	68.7
SXGA	1152x864	70	63.8
	1152x864	75	67.5
	1152x864	85	77.1
	1280x1024	60	63.98
	1280x1024	75	79.98
	1280x1024	85	91.1
SXGA+	1400x1050	60	63.98
UXGA	1600x1200	60	75
MAC LC 13”	640x480	66.66	34.98
MAC II 13”	640x480	66.68	35
MAC 16”	832x624	74.55	49.725
MAC 19”	1024x768	75	60.24
MAC	1152x870	75.06	68.68
MAC G4	640x480	60	31.35
MAC G4	640x480	120	68.03
MAC G4	1024x768	120	97.09
i Mac DV	640x480	117	60
i Mac DV	800x600	95	60
i Mac DV	1024x768	75	60
i Mac DV	1152x870	75	68.49
i Mac DV	1280x960	75	75
i Mac DV	1280x1024	85	91.1

Computer Compatibility (Digital)

Compatibility	Resolution	V-Sync [Hz]	H-Sync [KHz]
VGA	640x350	70	31.5
	640x350	85	37.9
	640x400	85	37.9
	640x480	60	31.5
	640x480	72	37.9
	640x480	75	37.5
	640x480	85	43.3
	720x400	70	31.5
	720x400	85	37.9
SVGA	800x600	56	35.2
	800x600	60	37.9
	800x600	72	48.1
	800x600	75	46.9
	800x600	85	53.7
XGA	1024x768	60	48.4
	1024x768	70	56.5
	1024x768	75	60.0
	1024x768	85	68.7
SXGA	1152x864	70	63.8
	1152x864	75	67.5
	1152x864	85	77.1
	1280x1024	60	63.98
	1280x1024	75	79.98
	1280x1024	85	91.1
SXGA+	1400x1050	60	63.98
UXGA	1600x1200	60	75

System Controller PIXELWORKS PW463

Video Compatibility Standards

NTSC - M (3.58 MHz), 4.43 MHz

PAL - B, D, G, H, I, M, N

SECAM - B, D, G, K, K1, L

HDTV - 480i/576i ; 480p/576p ; 720p ; 1080i

Intelligent Zoom By using “PIXELWORKS” chips to provide excellent quality zooming.

Control Key Pad 1. Power 2. Menu 3. Enter 4. Up 5. Down 6. Right 7. Left

1-4 Mechanical Specification

Weight

Approximate 8lbs

Unit dimension (W X D X H)

Inner dimension 335*250*100 (mm)

Projector control keypad

Power/standby, Directional keys, enter, source, menu

Cooling System

Advanced air flow

Three fans with low system acoustic noise level

Temperature control circuits with adaptive voltage control fan speed

Front Side

Projection Zoom Lens

One IR receiver window

Rear Side

One S-Video Input

One Composite Video Input

3 RCA RGBs input

AC inlet; type IEC-C14

One IR receiver window

Kensington key lock hole

One DVI-I for digital RBG & Analog RGB

Left Side None.

Right Side Outlet vents

Top Side

Keypad
LED indicators
One IR Receiver

Bottom

One elevator foot, one fix foot and one adjustable foot
One lamp cover
Inlet vent
Spec. and warning labels

Lamp housing

Lamp could be changed by customer, but should follow the user manual instruction.
Replaceable Lamp should be provided by Coretronic or its authorized agencies

Tilt Angle 7 degrees with elevator mechanism

Keystone correction

± 16° Vertical and Horizontal

Color White

Materials

ID housing would be plastic part.
AZ91D Mg Alloy for some Optic Engine parts.

Lamp Door Protection

Lamp power supply shut off automatically when door open.

1-5 Environment

Temperature

Operating	5 — 35°C
Storage	-20 — 60°C

Maximum Humidity

Operating	5 — 35°C, 80% non-condensing
Storage	-20 — 60°C, 80% non-condensing

Acoustic noise level

33dB(A) (Typical, 23 ± 2¢J) with wind tunnel design
33 dB(A) 250W Normal mode.
30 dB(A) 200 W in ECO-mode.
Follow ISO-7779 regulation sound pressure level A weighting measurement

Lamp life

-1500 hours typical, 50% survival rate

Altitude

Operating	0~2,500 ft	5°C~35°C
	2,500~5,000 ft	5°C~30°C
	5,000~10,000 ft	5°C~25°C
Storage	40,000 ft (Max)	

Chapter 2

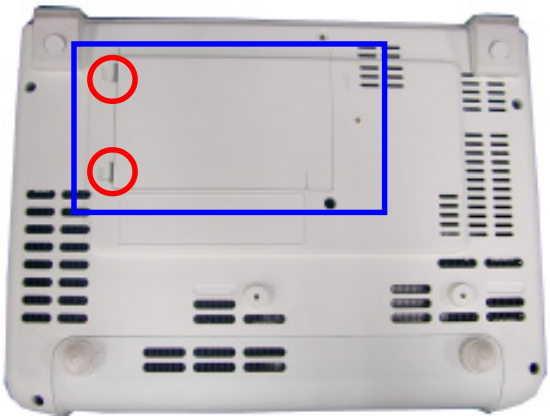
Disassembly Procedure

The Front Side

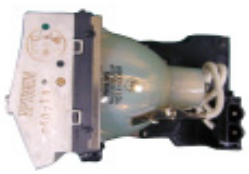
The Rear Side

2-1 Disassemble Lamp Module and Elevator Foot

Step1: Turn unit to bottom side. Remove Lamp Cover and unscrew three screws to pull out Lamp Module.

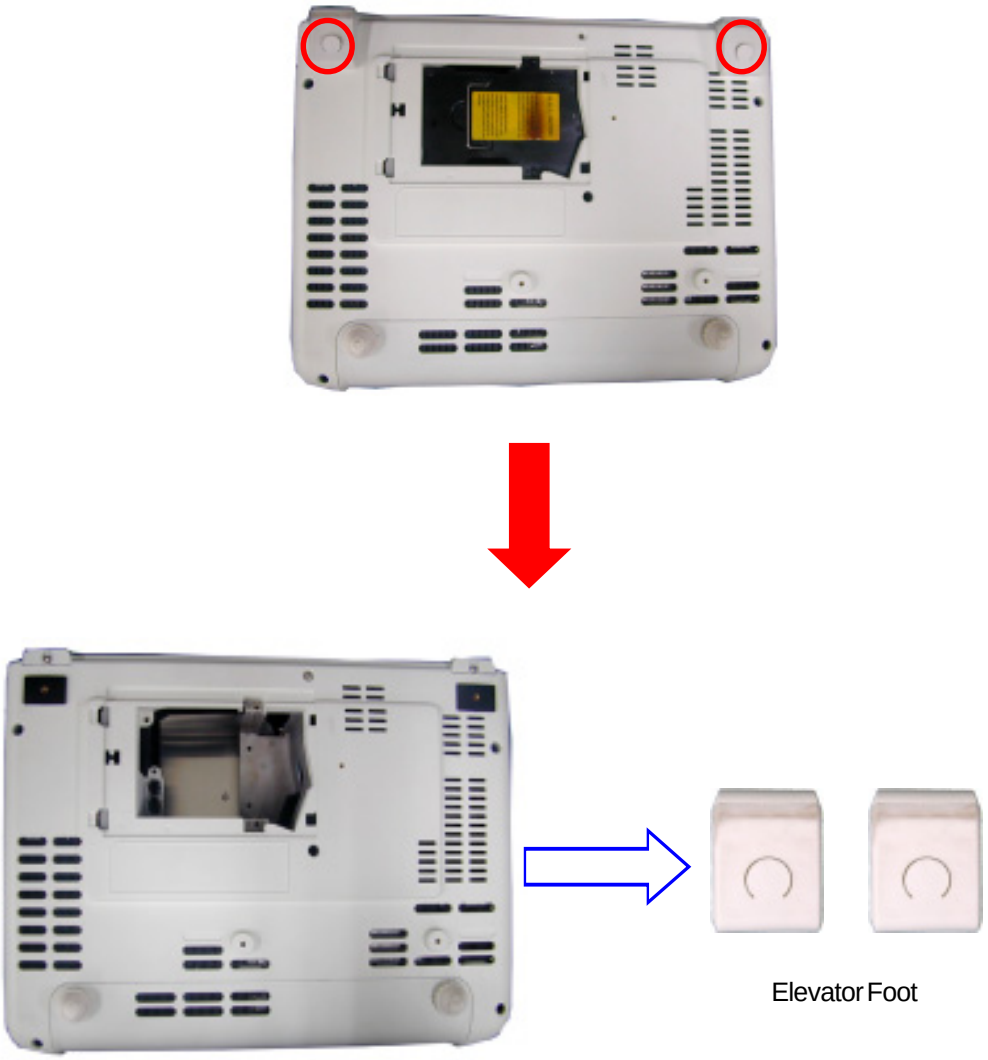


Lamp Cover



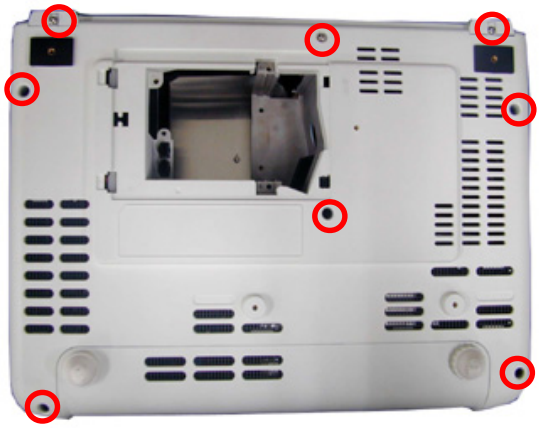
Lamp Module

Step2: Unscrew two screws to detach the Elevator Foot from Bottom Cover.

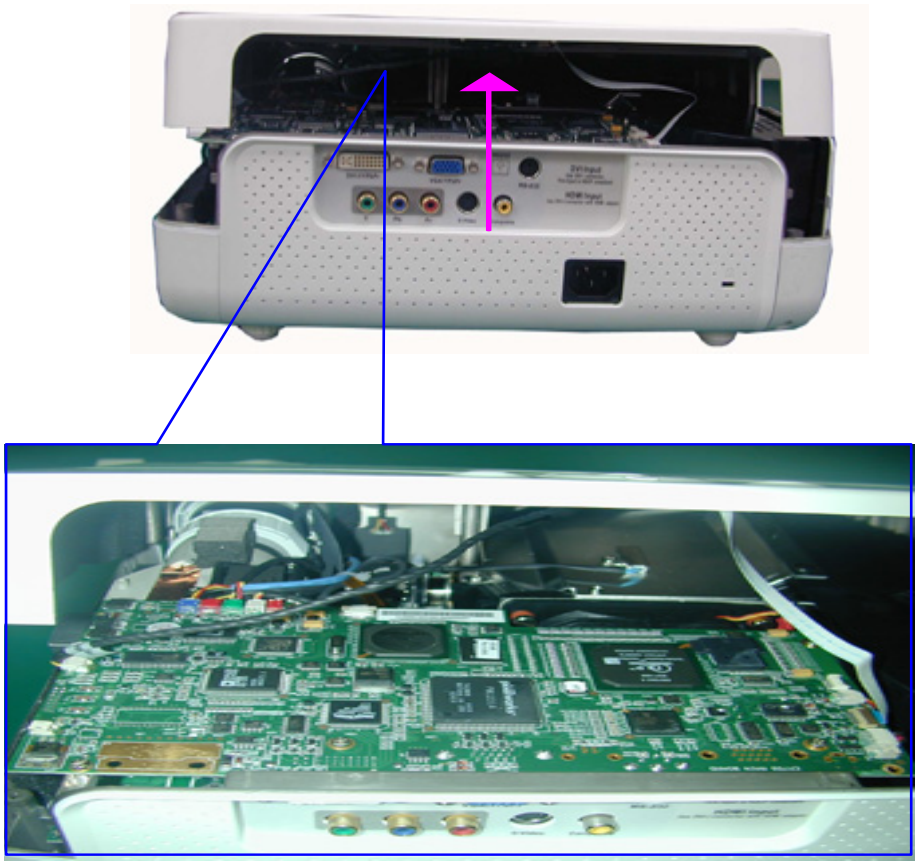


2-2 Disassemble Top Cover, Front Cover, Keypad Board and IR Sensor Module

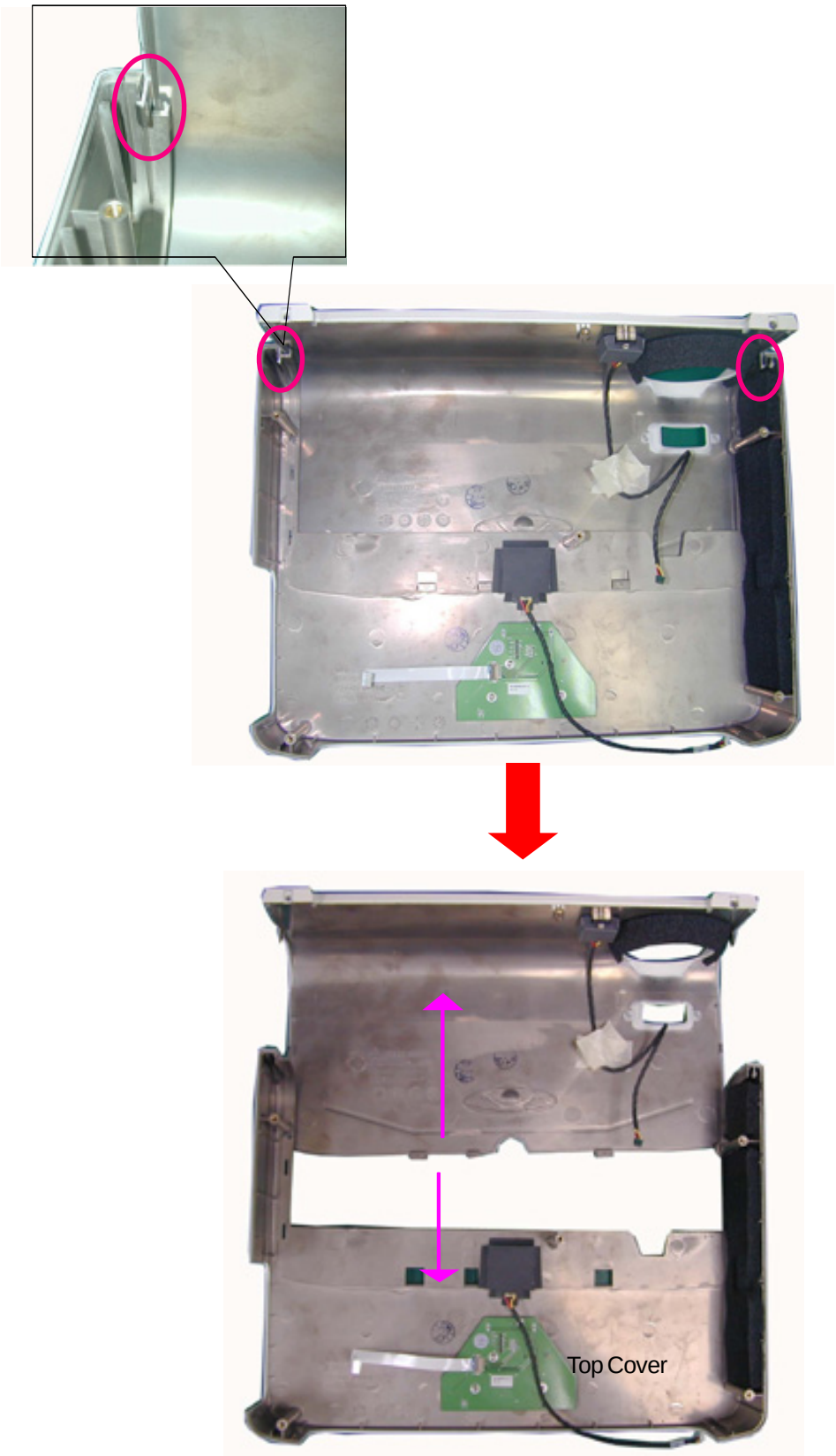
Step1: Unscrew eight screws and then turn the unit to the top side to lift Top Cover.



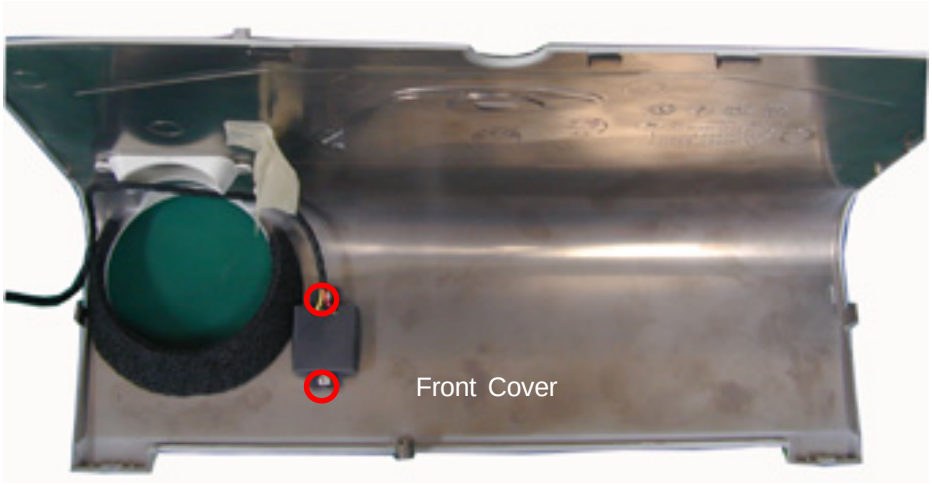
Step2: Unplug three wires to separate Top Cover from the main unit.



Step3: Separate Front Cover from Top Cover by pressing two tenons.

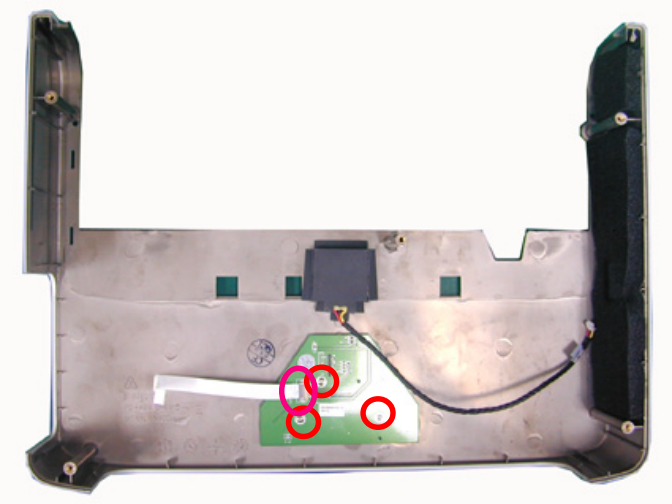


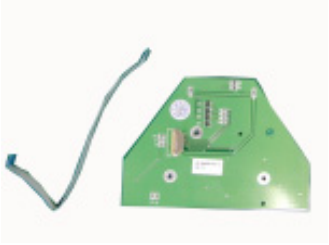
Step4: Unscrew two screws to take off IR Sensor.



IR sensor Module

Step5: Unscrew three screws and unplug the wire to remove the Keypad Board, Keypad Button and FPC.



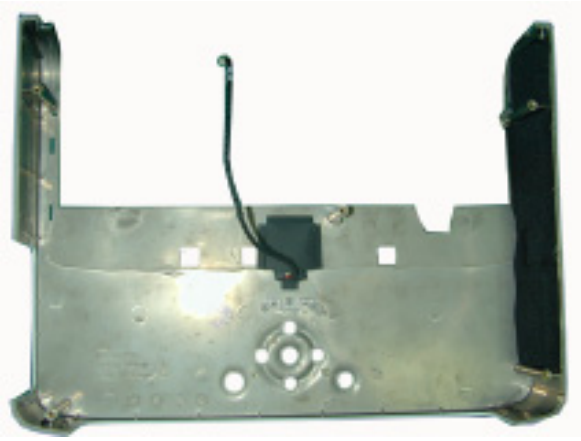


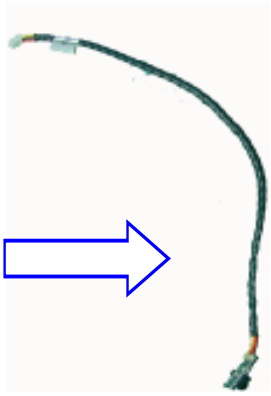
FPC

Keypad Board

Keypad Button

Step6: Take off Top IR Sensor Module from Rear Cover and separate IR Sensor from Anti-light Mylar.





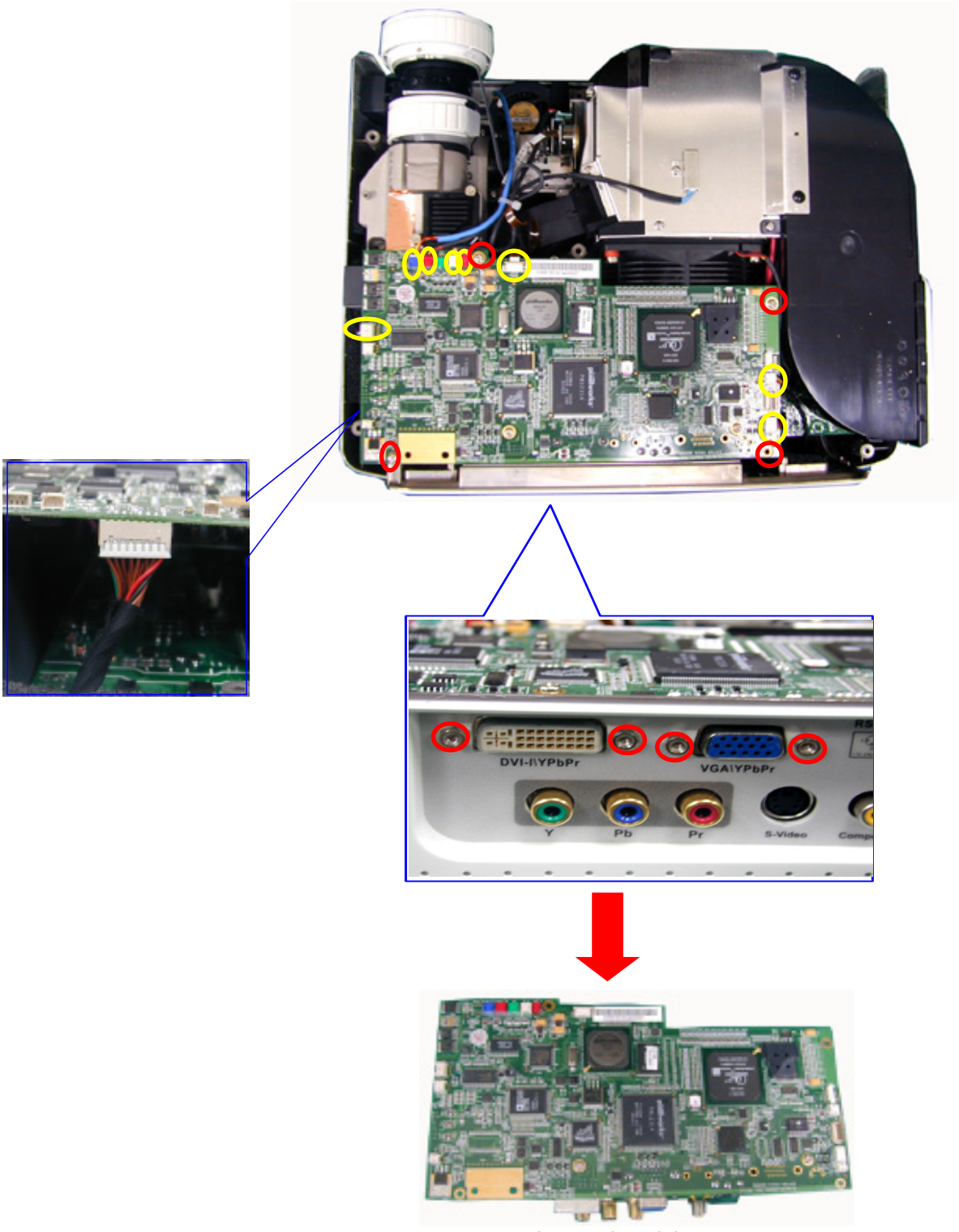
IR sensor

Anti-light Mylar

2-3 Disassemble Main Board Module and Thermal Switch

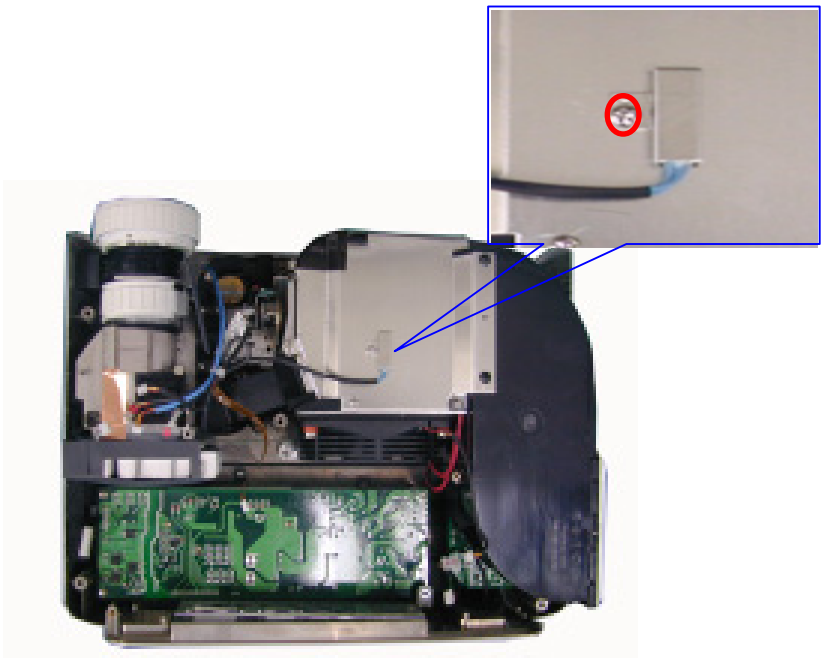
Step1: Unplug nine connectors and unscrew four screws.

Step2: Unscrew four hex screws from Rear Cover to remove Main Board.



Main Board Module

Step3: Unscrew one screw to remove Thermal Switch.

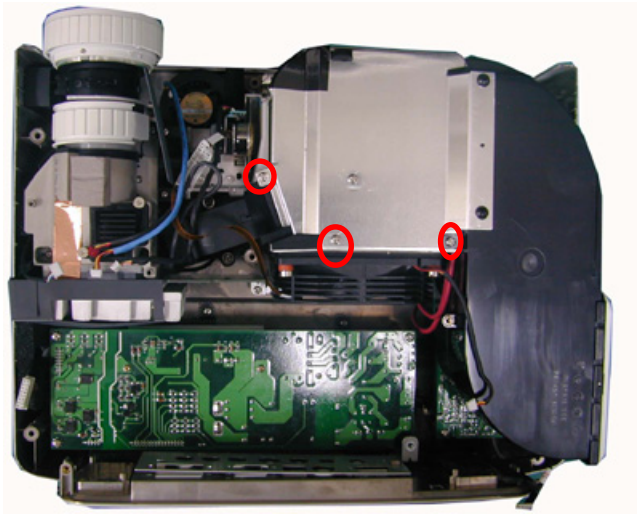


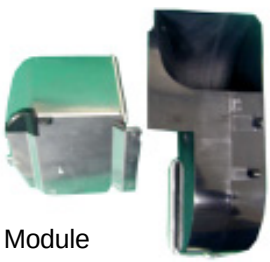
Thermal Switch

2-4 Disassemble Fan Guider Module, Wind Tunnel Module, Lamp Driver Module, LVPS and Interrupt Switch Module

Step1: Unscrew three screws to separate Fan Guider Module and Wind Tunnel Module from Bottom Housing.

Step2: Unscrew two screws from Wind Tunnel Module to remove Fan Guider Module.

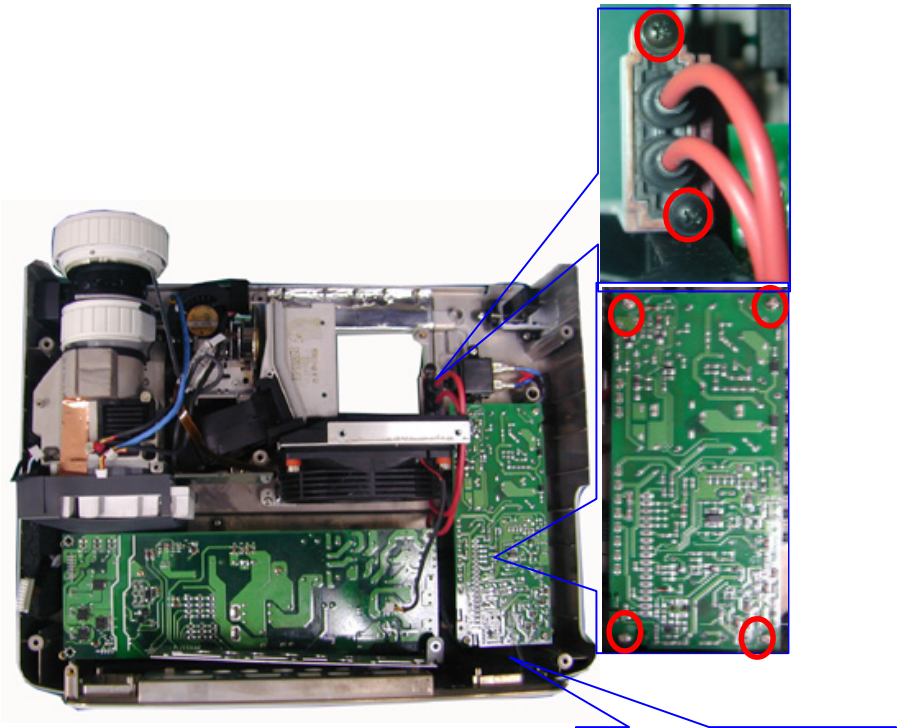


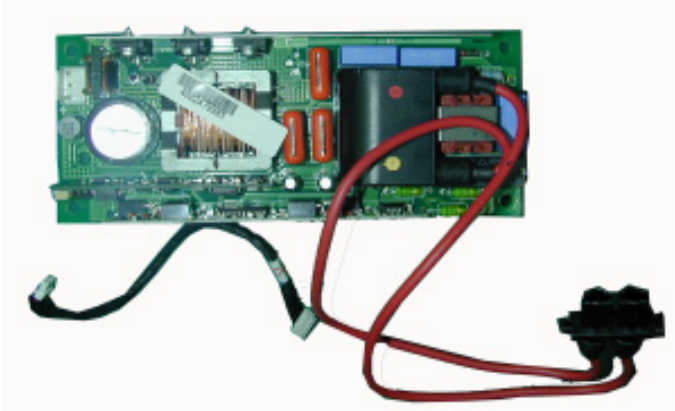


Fan Guider Module

Wind Tunnel Module

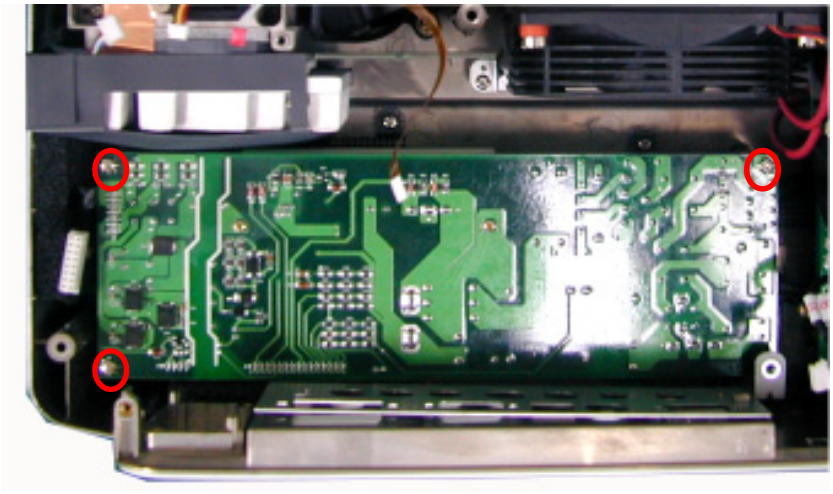
Step3: Unscrew six screws, unplug one wire and one connector to remove Lamp Driver Module.

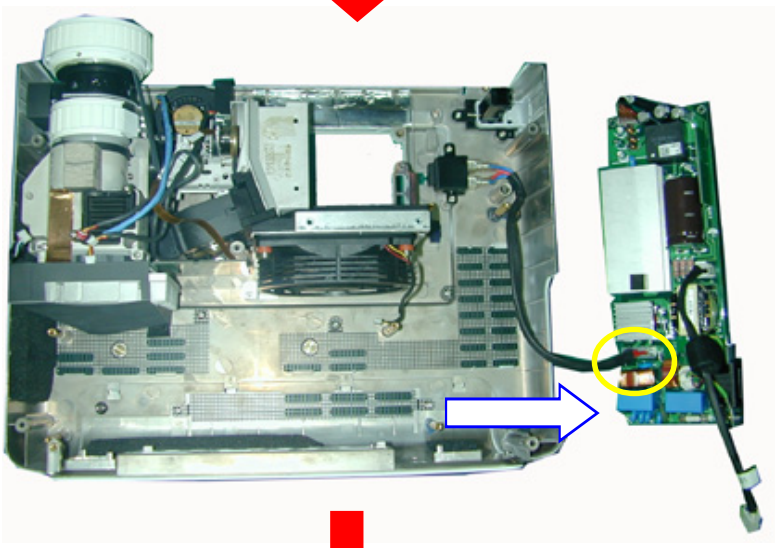




Lamp Driver Module

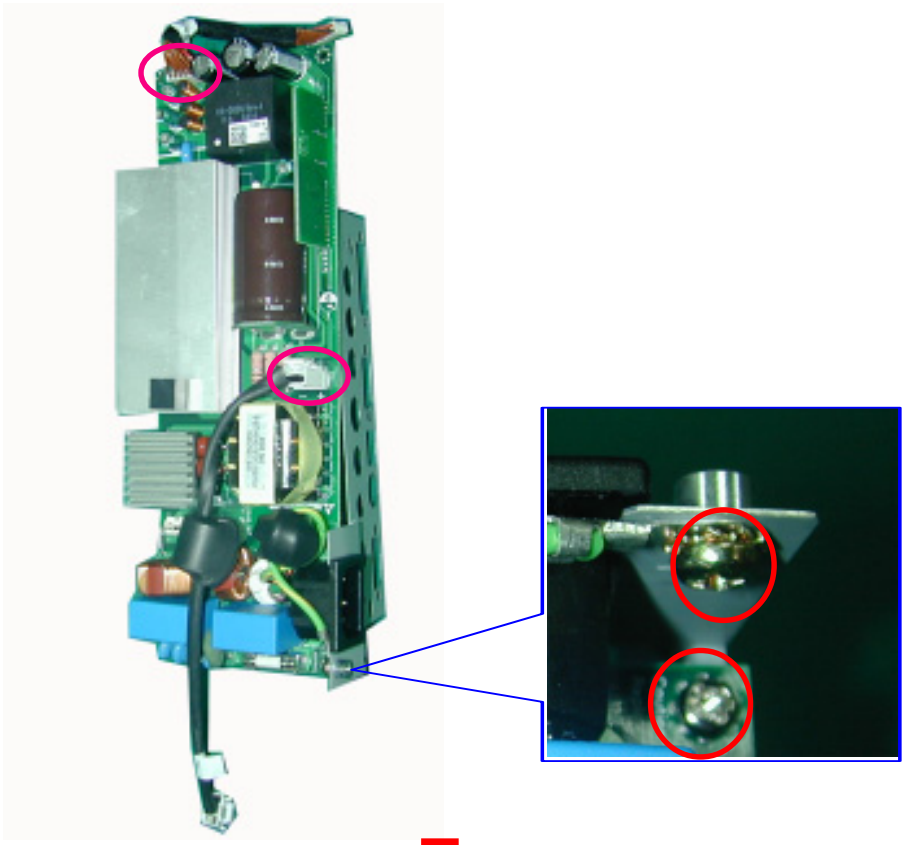
Step4: Unsrew three screws and unplug one wire to remove LVPS.

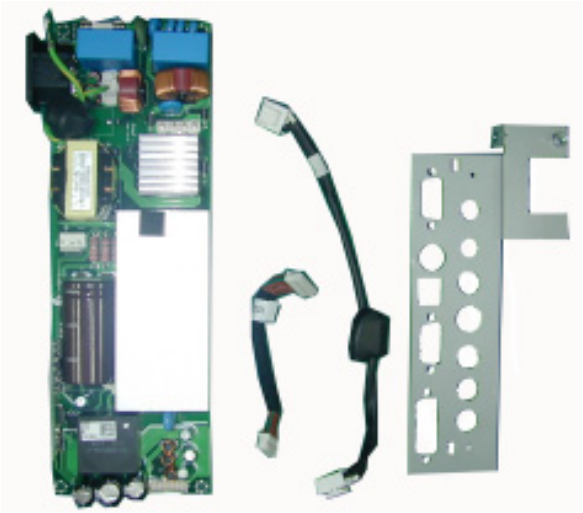




LVPS

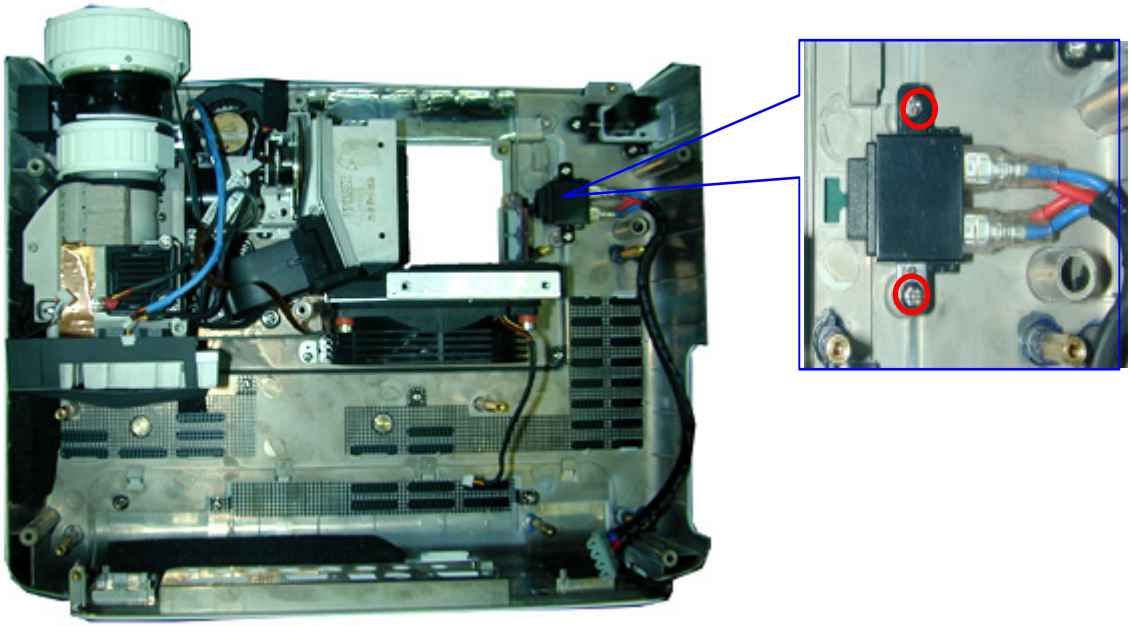
Step5: Unscrew two screws to remove EMI Ground Plate and separate the cables.





LVPS Cables EMI Ground Plate

Step6: Unscrew two screws to remove Interrupt Switch Module.



Interrupt Switch Module

2-5 Disassemble Color Wheel Module, Axial Fan 90x25 Module, Lamp Fan 60x60x25 and Optical Engine Module

Step1: Unscrew two screws to remove Color Wheel Module.

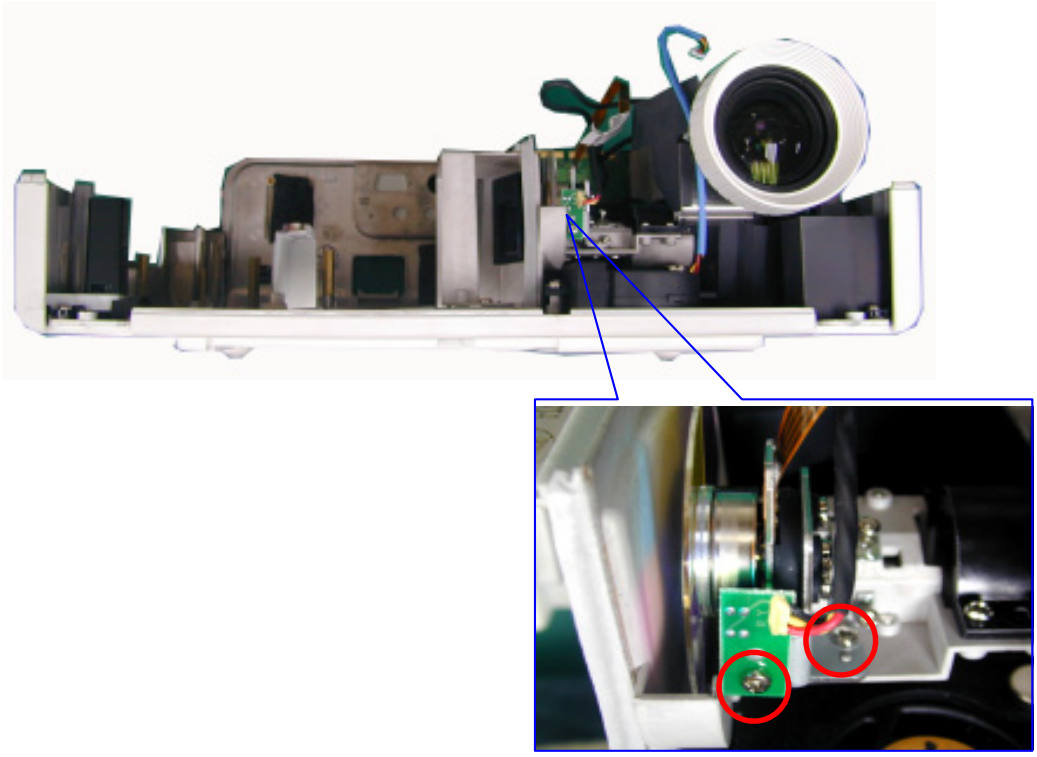
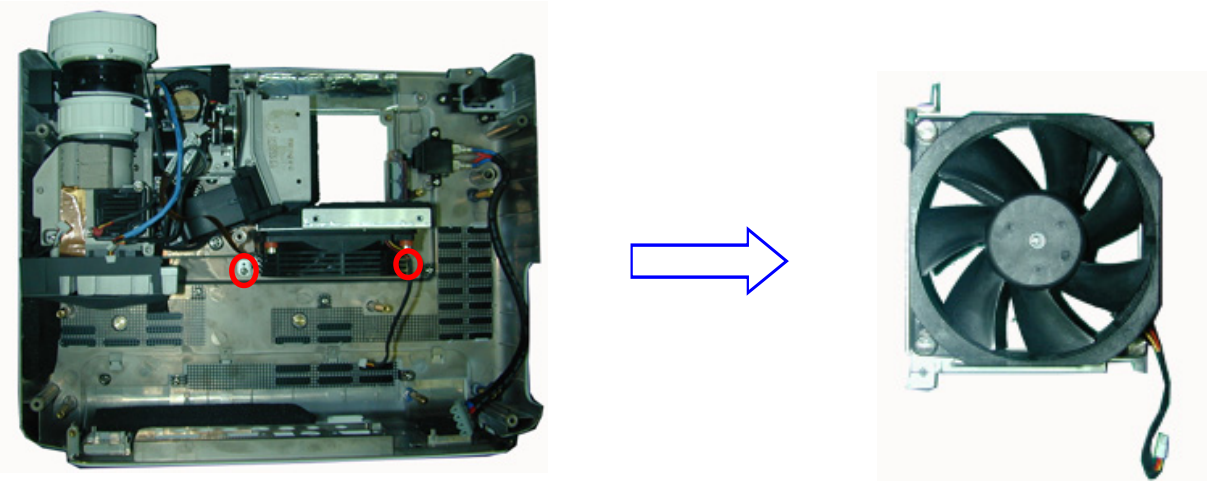


Photo Sensor

Color Wheel

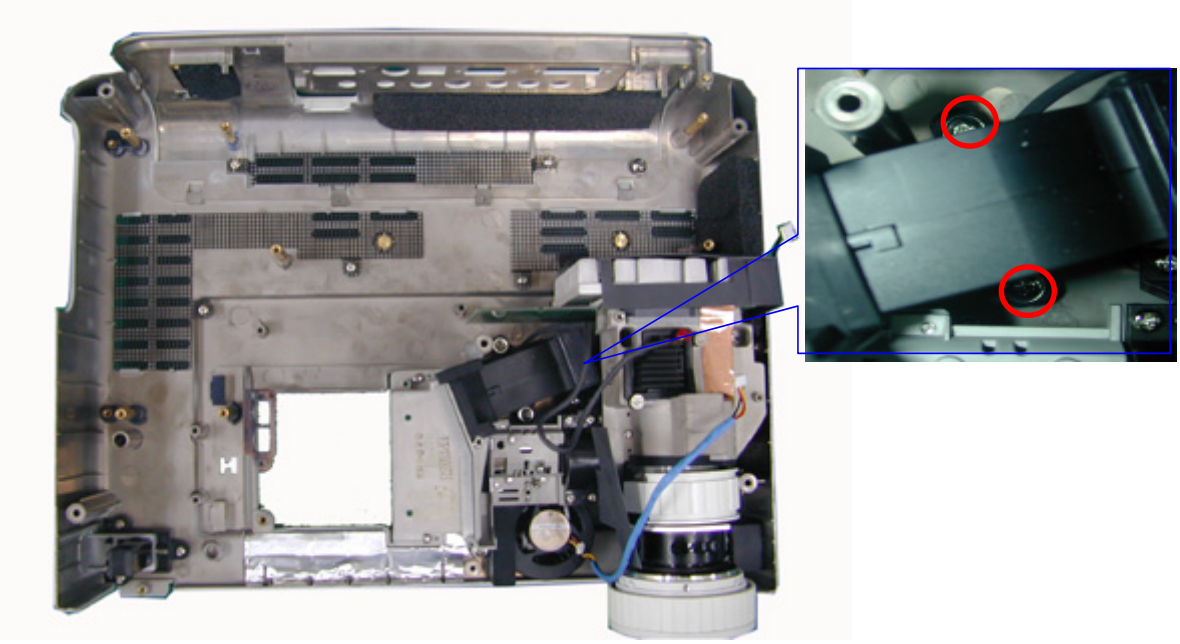
Step2: Unscrew two screws to remove Axial Fan 90x25 Module.

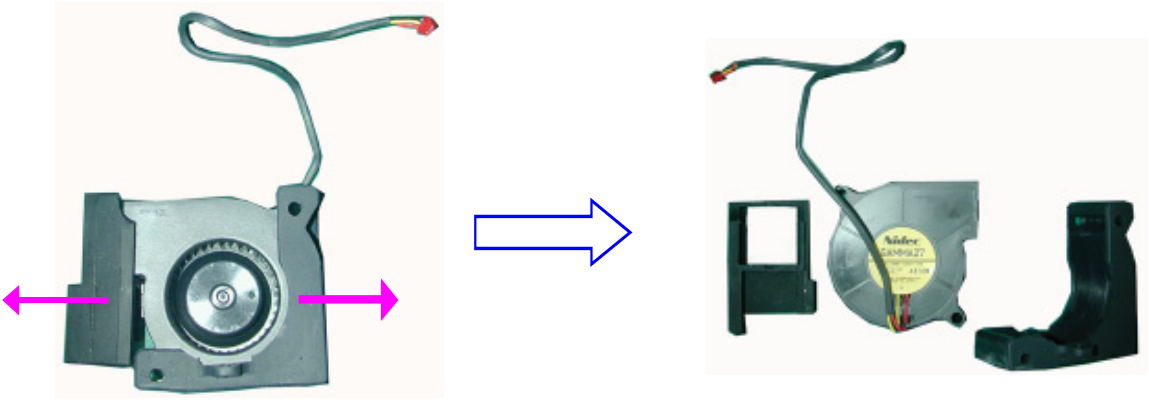


Steamtight Rubber Axial Fan 90x25 Holder Bracket and Rubber Bottom

Step3: Unscrew two screws to remove 60x60x25 Lamp Fan.

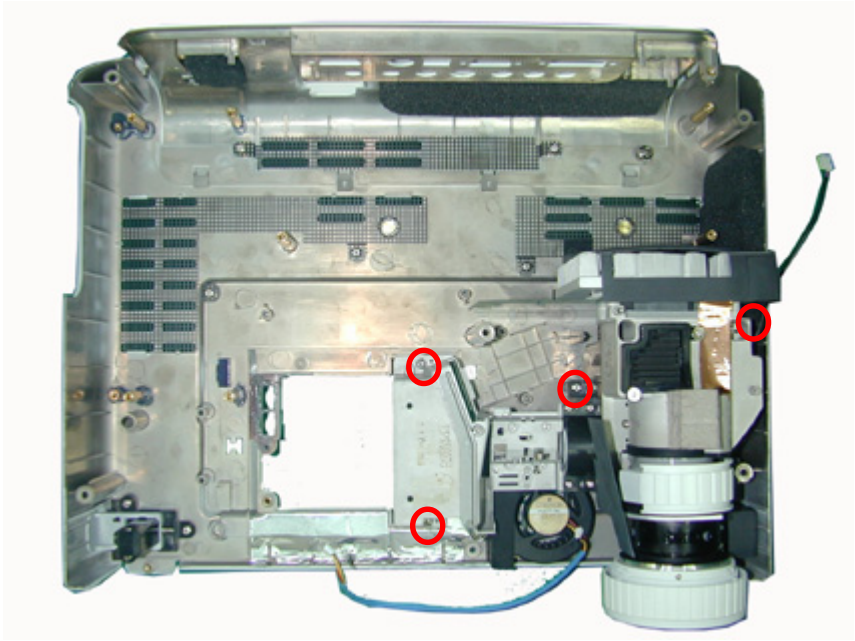
Step4: Pull two side outward to disassemble 60x60x25 Lamp Fan.

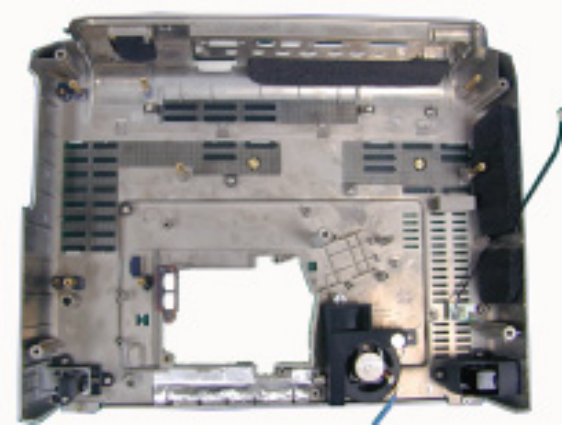




60x60x25 Lamp Fan Module

Step5: Unscrew four screws to remove Engine Module from Bottom Cover.

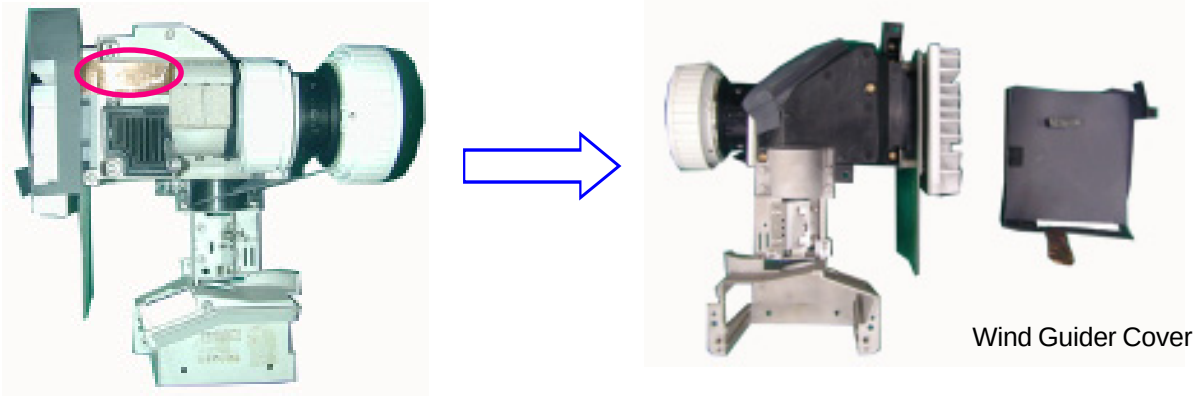




Bottom Cover

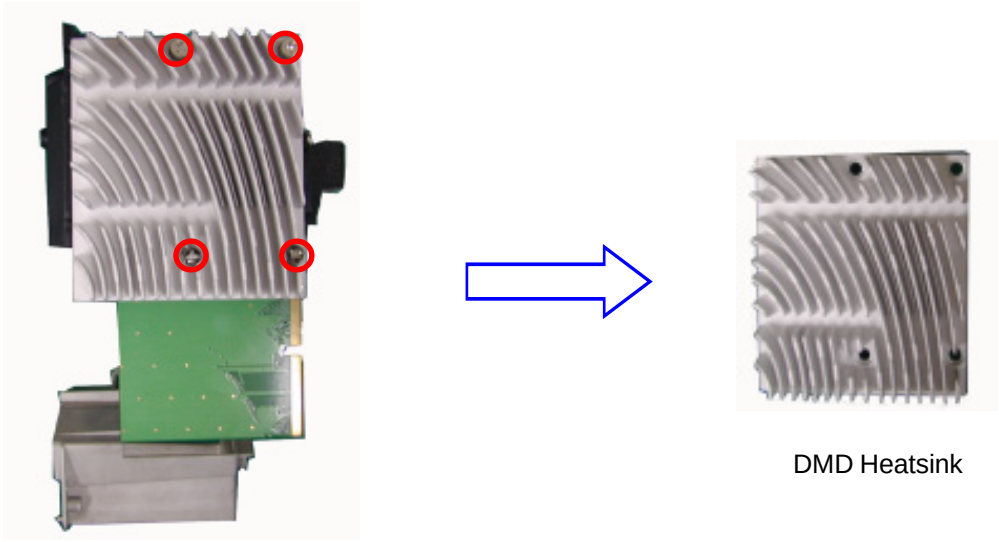
Optical Engine Module

Step6: Tear off EMI tape to separate Wind Guider Cover Mylar from Engine Module.



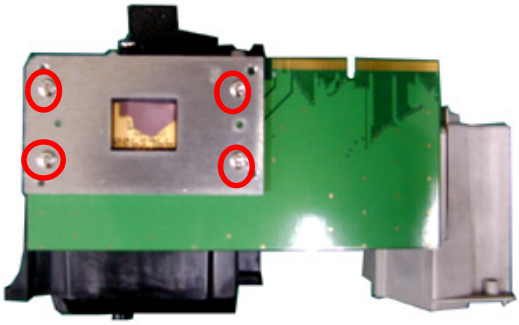
Wind Guider Cover Mylar

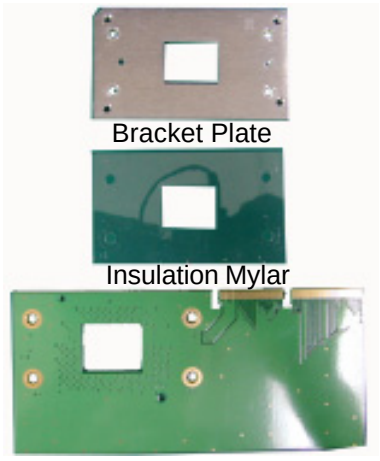
Step7: Unscrew four screws to remove DMD Heatsink.



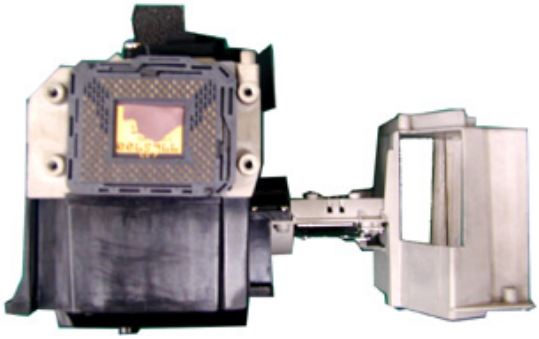
DMD Heatsink

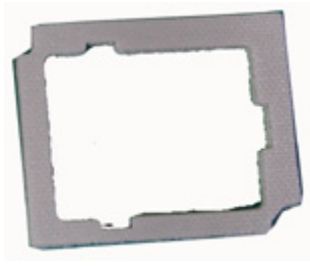
Step8: Unscrew four screws to remove Bracket Plate, Insulation Mylar, DMD Board.



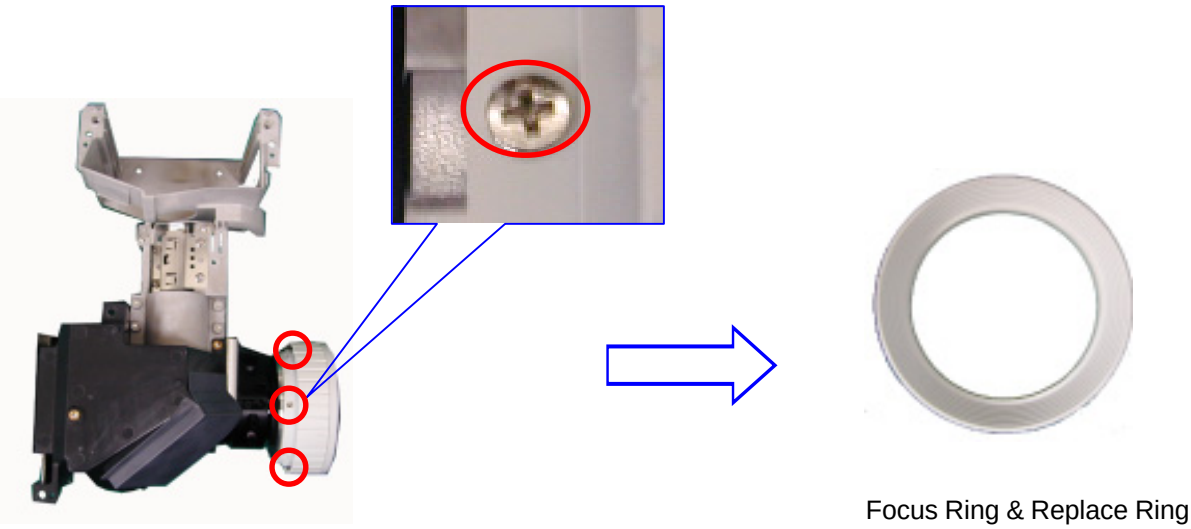


Step9: Separate DMD Chip from Engine Module.





Step10: Unscrew three screws to remove Focus Ring & Replace Ring.

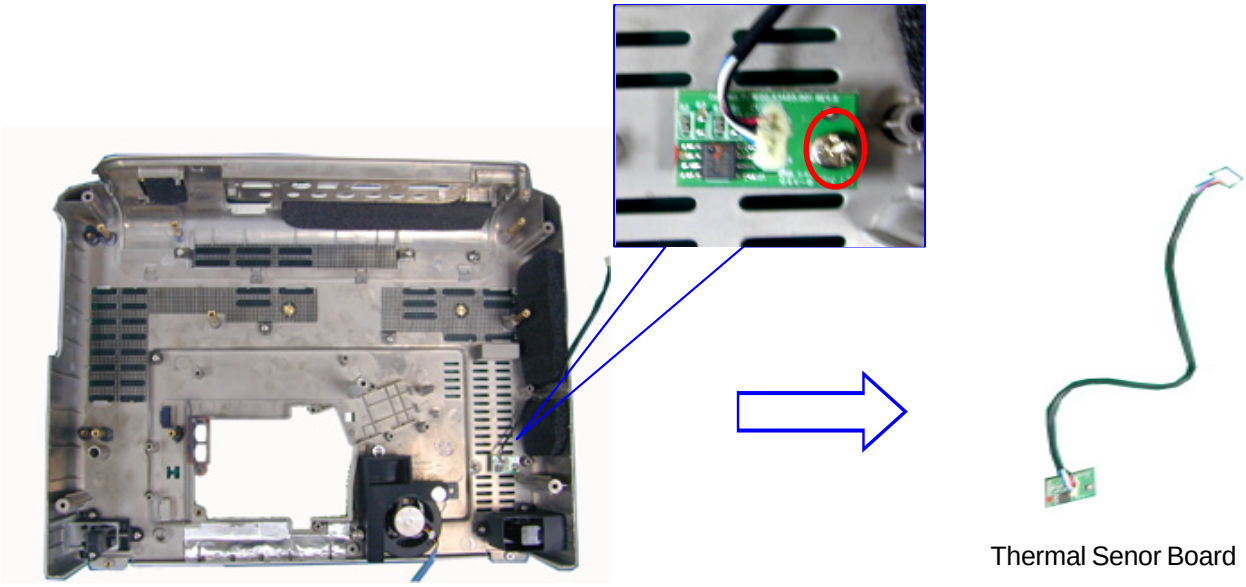


Optical Engine Module

Focus Ring & Replace Ring

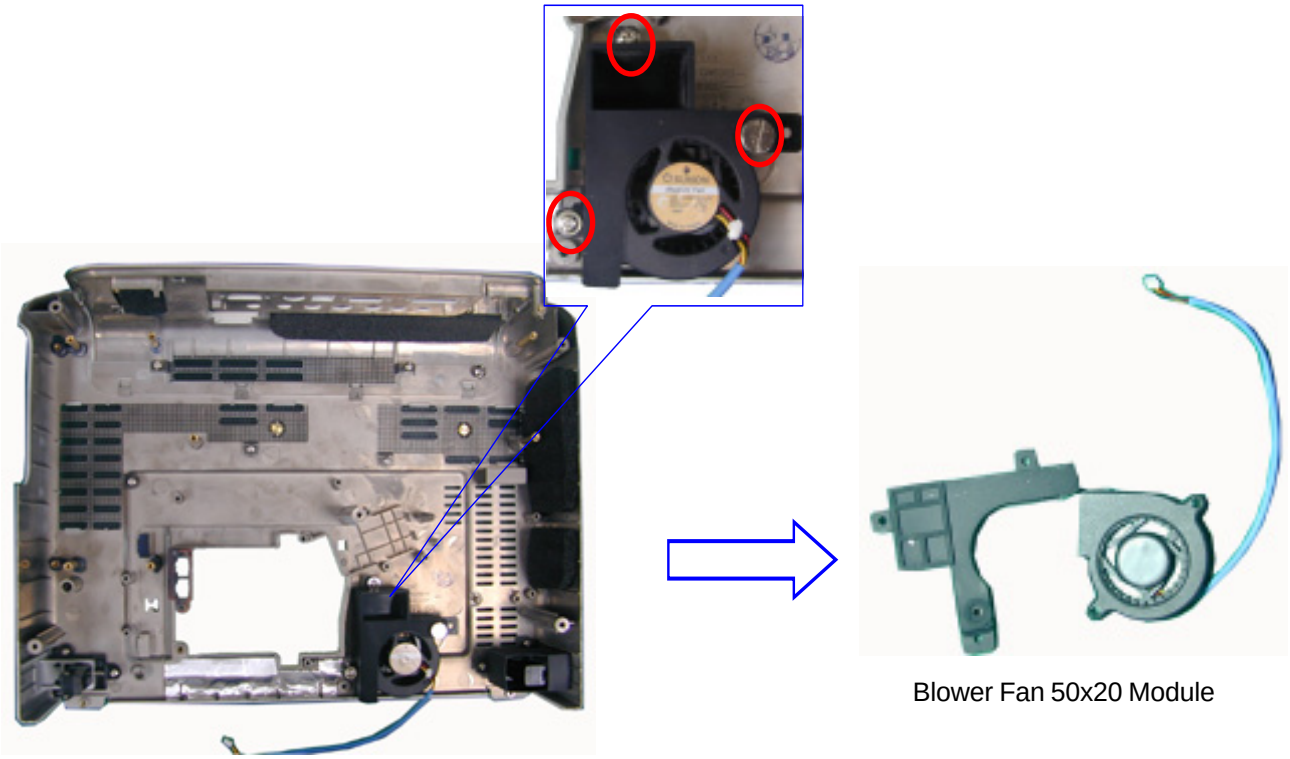
2-6 Disassemble Blower Fan 50x20, Thermal Sensor Board, Interrupt Switch Module, Bottom Cover and Rear Cover

Step1: Unscrew one screw to remove Thermal Senor Board.



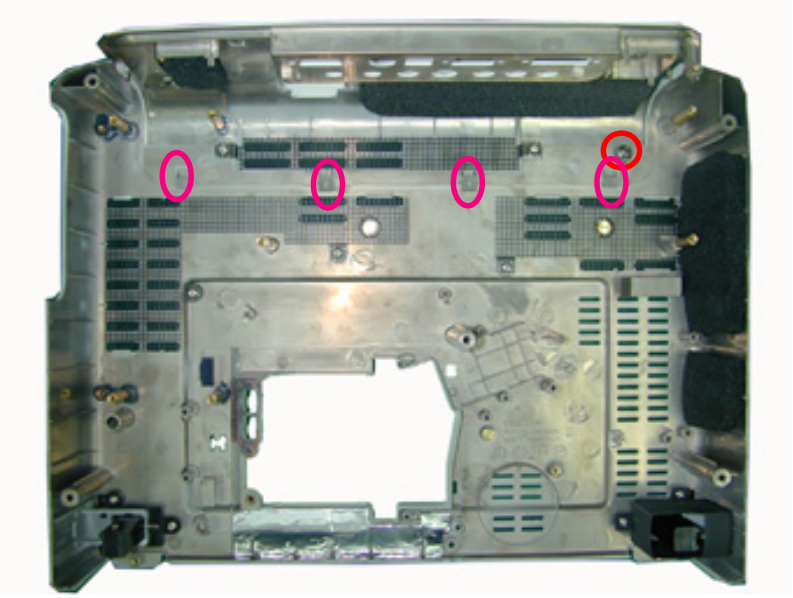
Thermal Senor Board

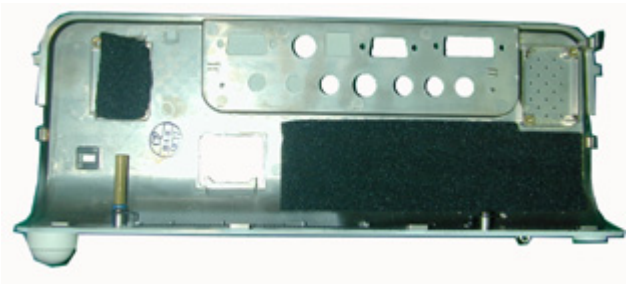
Step2: Unscrew three screws to remove Blower Fan 50x20 Module.



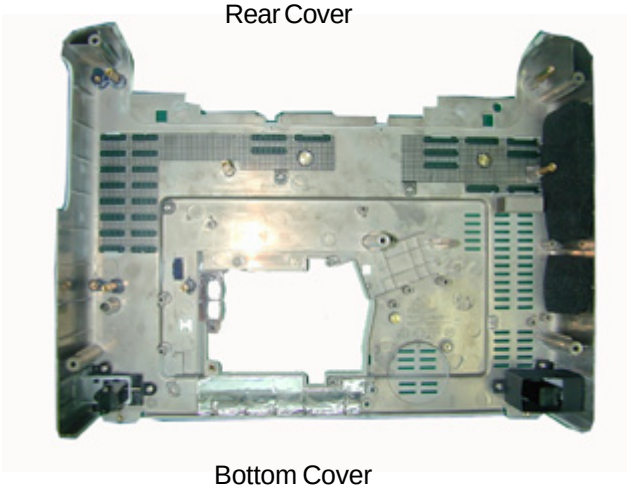
Blower Fan 50x20 Module

Step3: Unscrew one screw and separate Rear Cover from Bottom Cover by pressing four tenons.



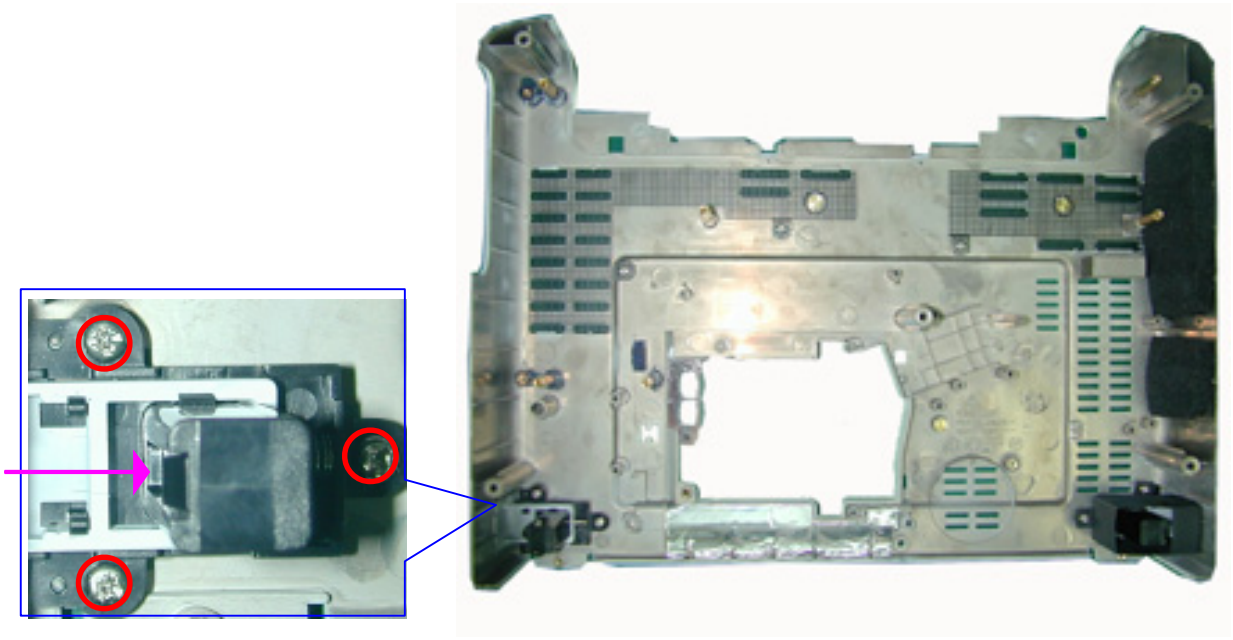


Rear Cover



Bottom Cover

Step4: Unscrew three screws and press the tenon to remove Elevator Module.



Elevator Module

Chapter 3

Troubleshooting

3-1 Equipment Needed

- H57 Projector
- VESA VGA Cable/VESA DVI Cable
- PC (Personal Computer) with analog and digital signal output.
- DVD Player for Video Signal and Audio Signal.
- H57 Remote Controller

3-2 Main Procedure

3-2.1 LED Lighting Message

Problem: LED lighting message

Message	Power LED		Temp LED	Lamp LED
	Green	Red		
Standby State	○	☼	○	○
Warming	Flashing	○	○	○
Cooling	○	Flashing	○	○
Normal	☼	○	○	○
Error (Lamp failed)	○	○	○	Flashing
Error (Fan failed)	○	○	○	Flashing
Error (Over Temp.)	○	○	☼	○

Warning Indicator

A. When the “TEMP” indicator turns red, it indicates the projector has overheated. The projector will automatically shut itself down.

B. When the “LAMP” indicator flashes red (0.5 second intervals), it indicates a problem with the lamp.

C. When the “LAMP” indicator flashes red (1 second intervals), it indicates the fan failed.

3-2.2 Power Troubleshooting

A. Is LED Indicator OK?
- Check the power cord and AC power outlet.
- Check if the keypad cable has been broken or not.
- Check if all the wires are connected well inside.
- Check the Ballast.
- Check Main Board.
- Check Keypad Board.

B. Is Fan Working After Press Power/Standby Button?
- Check if the Keypad cable has been broken or not.
- Check if all the wires are connected well inside.
- Check the Thermal board.
- Check Main board.
- Check Fan.

C. Is Lamp Lit?
- Check the Lamp cover assembly OK or not.
- Check if there is the sound of Lamp ignitor output from the unit or not.
- Check the Cable of Interrupt Switch.
- Check the DMD board.
- Check the Lamp module.
- Check the Ballast.

3-2.3 Performance Troubleshooting (Computer Signal)

A. Have Image?
- Ensure if the signal cable and source work as well.
- Check if OSD Menu shows on the screen.
- Check Main Board.
- Check DMD Board.

B. Have Garbage Pattern?
- Ensure the Signal cable and Source work as well.
- Check the Main board.
- Check the DMD board.

C. Uniformity OK?
- Ensure the Projection screen without dirty.
- Ensure the Projection lens is clean.
- Ensure the Uniformity is within spec.
- Check the Optical engine.

D. Is Color OK?
- Ensure if signal cable works as well.
- Check the “Color wheel index” in the engineering mode of OSD Menu. (*Note)
- Check Photo Sensor.
- Check Main Board.
- Check DMD Board.

E. Dot Defect isn’t Compliant with the Spec.
- Ensure the projection lens is clean.
- Use the air gun to clean the optical engine.
- Check DMD chip.

F. Have Noise?
- Ensure if the signal cable and source work as well.
- Adjust the tracking selection on OSD Menu.
- Press the Menu button to check that have the noise issue appear on OSD Menu. (Check DMD Board if the noise also appears on OSD Menu.)

G Have Line Bar?

- Adjust the frequency selection in OSD Menu.
- Press the Menu button to check that have Line bar show on the OSD Menu. (Check the DMD chip and DMD board. If the Line bar also show on the OSD Menu)
- Ensure that there is no dust on the DMD Contact housing module.
- Re-assembly for DMD module.
- Check the Main board.

*Note : The procedure to enter engineering mode is as follows
Press ”Power”, ”Up”, ”Down”, ”Right” button when the Unit under search status.

3-2.4 Performance Troubleshooting (Video Signal)

A. Have Image?

- Ensure the signal cable and source work as well.
- Check if OSD menu shows on the screen.
  (Check Main Board if OSD menu cannot show on the screen)
- Check DMD Board.

B. Have Garbage Pattern?

- Ensure the signal cable and source work as well.
- Check that can OSD menu show on the screen.
  (Check Main Board if OSD cannot show on the screen)
- Check DMD Board.

C. Is Color OK?

- Do the “Factory Reset” of the engineering mode.
- Ensure the signal cable work as well.
- Check the color temperature setting of OSD menu.
  (Check the main board if the setting of color temperature is under default)
- Check the color setting of OSD menu. Ex: “Saturation”, ”Tint” and “Sharpness” setting of OSD menu.

D. Is Image Flickering?

- Ensure the signal cable works as well.
  (Please check the length of cable; the signal will be reduce when the signal cable is longer than 5m)
- Do the “Factory Reset” of the engineering mode.
  (Check the Main board if the image still flicker after the factory reset.)

E. Is There Line Bar Shown on The Screen?

- Check if the line bar appears on OSD menu.
  (Check DMD Board if the bar line isdisplayed on OSD menu.)
  (Check the Main Board if the bar line isdisplayed on OSD menu.)

F. Is Image Noise?

- Ensure the signal cable works as well.
  (Check the cable length of cable; the signal will be reduce when the signal cable is longer than 5m)
- Do the “Factory Reset” of the engineering mode.
  (Check the Main board if the image still display with noise.)

3-2.5 Function Troubleshooting

A. OSD Does Not Show up
- Check the keypad cable and ensure there isn't something wrong with the cable.
- Use the remote control for the OSD function test.
  (Check the Keypad board and Keypad cable if the Remote control works as well)
- Check the Main board.

B. Function Cannot Be Adjusted.
- Check the keypad cable and ensure there isn't something wrong with the cable.
- Use the remote control for the OSD function test.
  (Check the Keypad board and Keypad cable if the Remote control works as well)
- Check the Main board.

3-2.6 Remote Controller Troubleshooting

A. No Function with Remote Controller.
- Replace the battery if there is no function.
- Use a well-functioning Remote controller for the function test.
  (Replace the Remote controller if the new Remote controller works fine with the Unit.)
- Check Main Board if the Unit works fine with a known good Remote controller.

Chapter 4

Function Test and Alignment Procedure

4-1 Test Equipment

- IBM PC with XGA resolution (Color Video Signal & Pattern Generator)
- DVD player with component video (Y, Pb, Pr) and Multi-system (NTSC/PAL/SECAM)
- HDTV Tuner or Source (480i/p,576i/p,720p,1080i)
- Minolta CL-100
- Quantum Data 802B or Chroma 2327.

4-2 Test Condition

- Circumstance Brightness
  1.) Dark room less than 10 lux for functional inspection.
  2.) Circumstance brightness over than 500 lux for external inspection.
- Inspection Distance
  1.) About 1.5~3m for functional inspection (The prosection distance has to base on the screen size till 60 inches)
  2.) 30cm for external inspection.
- Screen Size : 60 inches diagonal (wide)
- Each H57 should be run-in for 2 hours after repair.
- Before function test and alignment, each H57 should be warmed up for 5 minutes.
  1.) In room temperature
  2.) With cycled display colors (R,G,B,White) *Note
- Test Display Mode & Pattern (Refer to 4-4.1 & 4-4.2)
- Function Test and Alignment Procedure

*Note : (a)Please enter “Engineering Mode” to select burn-in function. (For cycled display color mode)
(b)The procedure for enter Engineering Mode.
Press “Power”,”Up”,”Down”,”Right” button when unit is showing “search the signal” image.

4-3 Test Display Modes & Pattern

4-3.1 Compatible Modes

- Analog

Compatibility	Resolution	V-Sync [Hz]	H-Sync [KHz]
VGA	640x350	70	31.5
	640x350	85	37.9
	640x400	85	37.9
	640x480	60	31.5
	640x480	72	37.9
	640x480	75	37.5
	640x480	85	43.3
	720x400	70	31.5
	720x400	85	37.9
SVGA	800x600	56	35.2
	800x600	60	37.9
	800x600	72	48.1
	800x600	75	46.9
	800x600	85	53.7
XGA	1024x768	43.4	35.5
	1024x768	60	48.4
	1024x768	70	56.5
	1024x768	75	60.0
	1024x768	85	68.7
SXGA	1152x864	70	63.8
	1152x864	75	67.5
	1152x864	85	77.1
	1280x1024	60	63.98
	1280x1024	75	79.98
	1280x1024	85	91.1
SXGA+	1400x1050	60	63.98
UXGA	1600x1200	60	75
MAC LC 13”	640x480	66.66	34.98
MAC II 13”	640x480	66.68	35
MAC 16”	832x624	74.55	49.725
MAC 19”	1024x768	75	60.24
MAC	1152x870	75.06	68.68
MAC G4	640x480	60	31.35
MAC G4	640x480	120	68.03
MAC G4	1024x768	120	97.09
i Mac DV	640x480	117	60
i Mac DV	800x600	95	60
i Mac DV	1024x768	75	60
i Mac DV	1152x870	75	68.49
i Mac DV	1280x960	75	75
i Mac DV	1280x1024	85	91.1

- **Digital**

Compatibility	Resolution	V-Sync [Hz]	H-Sync [KHz]
VGA	640x350	70	31.5
	640x350	85	37.9
	640x400	85	37.9
	640x480	60	31.5
	640x480	72	37.9
	640x480	75	37.5
	640x480	85	43.3
	720x400	70	31.5
	720x400	85	37.9
SVGA	800x600	56	35.2
	800x600	60	37.9
	800x600	72	48.1
	800x600	75	46.9
	800x600	85	53.7
XGA	1024x768	60	48.4
	1024x768	70	56.5
	1024x768	75	60.0
	1024x768	85	68.7
SXGA	1152x864	70	63.8
	1152x864	75	67.5
	1152x864	85	77.1
	1280x1024	60	63.98
	1280x1024	75	79.98
	1280x1024	85	91.1
SXGA+	1400x1050	60	63.98
UXGA	1600x1200	60	75

4-3.2 Function Test Display Pattern

- **PC Signal**

Item	Test Content	Pattern	Specification	Remark
1	Frequency & Tracking	Fine Line Moire	Eliminate visual wavy noise by Rsync, Frequency or Tracking selection.	Figure 1
2	Contrast/Brightness	16 Gray Scale / 64 RGBW scale	Gray level should be distinguishable and without color abnormal.	Figure 2,3
3	R, G, B and White Color Performance	R, G, B and White Color	Each R, G, B color should be normal without color abnormal issue.	Figure 4~7
4	Screen Uniformity	Full White	Should be compliant with 65%.(Minimum)	Figure 7
5	Dead Pixel (Bright pixel)	Full Black	Cannot accept any bright pixel	Figure 8
	Dead Pixel (Dark pixel)	Full White	The numbers of dead pixel should be smaller or amount to 6 pixel.	Figure 7
6	Blemish (Bright)	Full Black / Gray 30	The bright blemish cannot be accept if the problem appear with Gary 30 pattern.	Figure 8, 9
7	Blemish (Dark)	Full white / Blue 60	The dark blemish cannot be accept if the problem appear with Blue 60 pattern.	Figure 7,10
8	Focus	Text Pattern	The text in the corner should be clear after adjust the focus ring.	Figure 11
9	Boundary	Boundary Frame	Horz. And Vert. position of video should be adjustable to be the screen frame.	Figure 12

Figure 1. Fine Line Moire

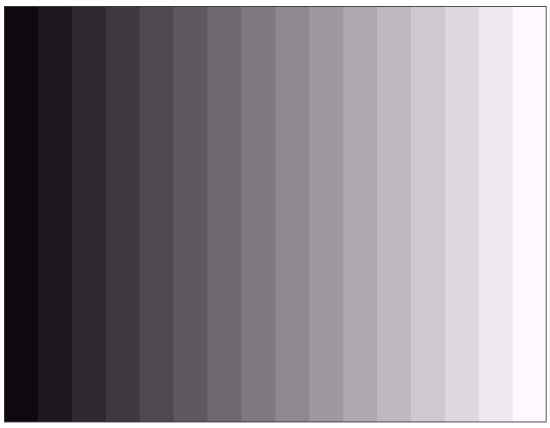


Figure 2.Gray Scale Pattern

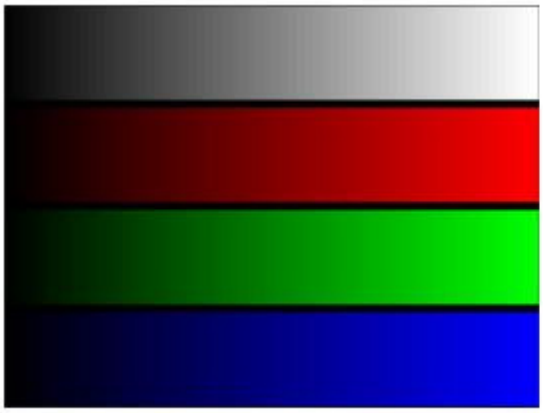


Figure 3. 64 RGBW Scale

Figure 4. Red Pattern

Figure 5. Green Pattern

Figure 6. Blue Pattern

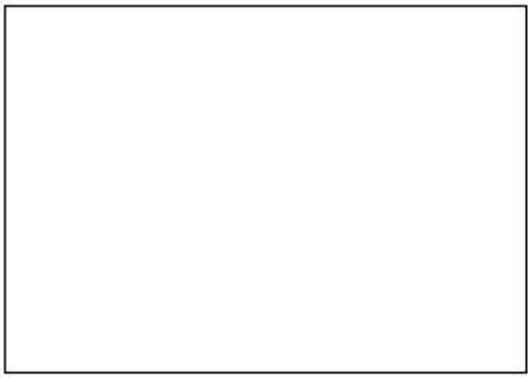


Figure 7. Full White

Figure 8. Full Black

Figure 9. Gray 30 Pattern

Figure 10. Blue 60 Pattern

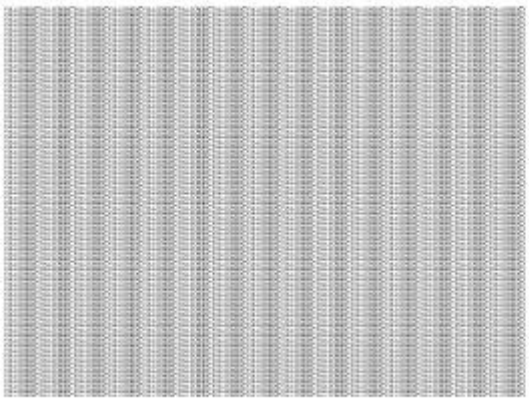


Figure 11. Text Pattern

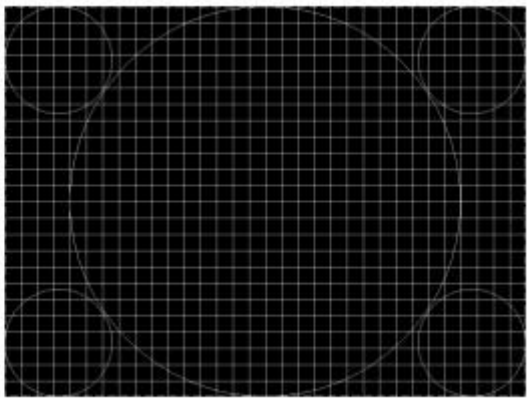


Figure 12. Boundary Frame

- Video & Audio Signal

Item	Test Content	Specification
1	Composite Video	The input signal has to display without color abnormal. The Video selection of OSD
2	S-Video	The input signal has to display without color abnormal.
3	Component Video	The input signal has to display without color abnormal.
4	HDTV	The input signal has to display without color abnormal.

4-4 Inspection Procedure

- Elevator Function
  1. Please check and ensure the function of elevator is work as well.
  2. If not, please return the unit to repair area.

- Keypad Function (Including Remote Control)
  1. Please check and ensure the control function of keypad is work as well.
  2. If not, please return the unit to repair area.

- Clock and Clock phase

  Test Signal:1024 x 768 @ 75Hz

  Test Pattern:Fine Line Moire Pattern
  1. Check and see if image sharpness and focus in well performed.
  2. If not, readjust by following steps.
     (a) Enter Image-I, and then select "Frequency" function to adjust the total pixel number of pixel clock in one line period.
     (b) Then select "phase" function and use right or left button to adjust the value to minimize video flicker.

- R, G, B and white color contrast

  Test Signal:1024 x 768 @ 75Hz

  Test Pattern:64 RGBW scale pattern
  1. Please check and ensure if each color is normal and distinguishable.
  2. If not, please return the unit to repair area.

- Screen Uniformity

  Test Signal:1024 x 768 @ 75Hz

  Test Pattern:Full white pattern
  1. Please check and ensure the unit is under the spec. (60% Minimum)
  2. If not, please return the unit to repair area.

- Dead pixel (Bright pixel)

  Test Signal:1024 x 768 @ 75Hz

  Test Pattern:Full black pattern
  1. Please check and ensure the unit is under the spec. (Cannot accept any bright pixel)
  2. If not, please return the unit to repair area.

- Dead pixel (Dark pixel)

  Test Signal:1024 x 768 @ 75Hz

  Test Pattern:Full white pattern

  1. Please check and ensure the unit is under the spec. (Pixel number should be smaller or amount to 6 pixels)
  2. If not, please return the unit to repair area.

- Blemish(Bright)

  Test Signal:1024 x 768 @ 75Hz

  Test Pattern:Full black and Gray 30 patterns

  1. Please check and ensure the unit is under the spec. (The bright blemish should not be able to see under Gray 30 pattern)
  2. If not, please return the unit to repair area.

- Blemish (Dark)

  Test Signal:1024 x 768 @ 75Hz

  Test Pattern:Full white and Blue 60 patterns

  1. Please check and ensure the unit is under the spec. (The dark blemish should not be able to see under Blue 60 pattern)
  2. If not, please return the unit to repair area.

- Focus

  Test Signal:1024 x 768 @ 75Hz

  Test Pattern:Text pattern

  1. Please check and ensure the unit is under the spec. (The text in the corner should be able to see with clear)
  2. If not, please return the unit to repair area.

- Boundary

  Test Signal:1024 x 768 @ 75Hz

  Test Pattern:Boundary frame pattern

  1. Please check and ensure the unit is under the spec. (The horizontal and vertical position of image should be adjustable to be the screen frame.)
  2. If not, please return the unit to repair area.

- Video

  Test Signal:Composite video,S-Video and Component video

  Test Pattern:NTSC,PAL,SECAM

  1. Please check and ensure the unit can display the video signal without color abnormal or image abnormal issue.
  2. If not, please return the unit to repair area.

- HDTV

  Test Signal:HDTV signal

  Test Pattern:480i/p,576i/p,720p,1080i

  1. Please check and ensure the unit can display the HDTV signal without color abnormal or image abnormal issue.
  2. If not, please return the unit to repair area.

- Reset All

  After final QC step, we have to erase all saved change again and restore the factory defaults. Please select and enter “Factory Reset” function of “Engineering Mode” to ensure the function is work as well. This action will allow you erase all end-user’s settings and restore the original factory setting.

Chapter 5

Firmware Upgrade Procedure

5-1 Equipment Needed

Software :

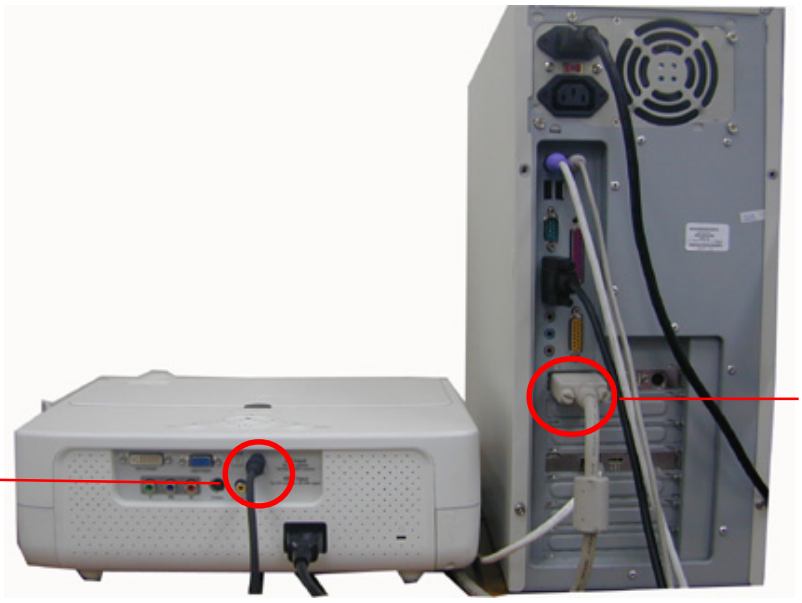
- Config.hex
- Flasher.hex
- FlashUpgrader.exe
- Gui.exe
- Pixelware.inf
- Romcode.hex

Hardware :

- Power Cord
- Cable RS232 To Mini Din 3Pin
- PC or Laptop
- H57 Projector

5-2 Hardware Setup Procedure

1. Connecting RS232 Cable between PC and H57 Projector.



5-3 Firmware Progarm Installation Procedure

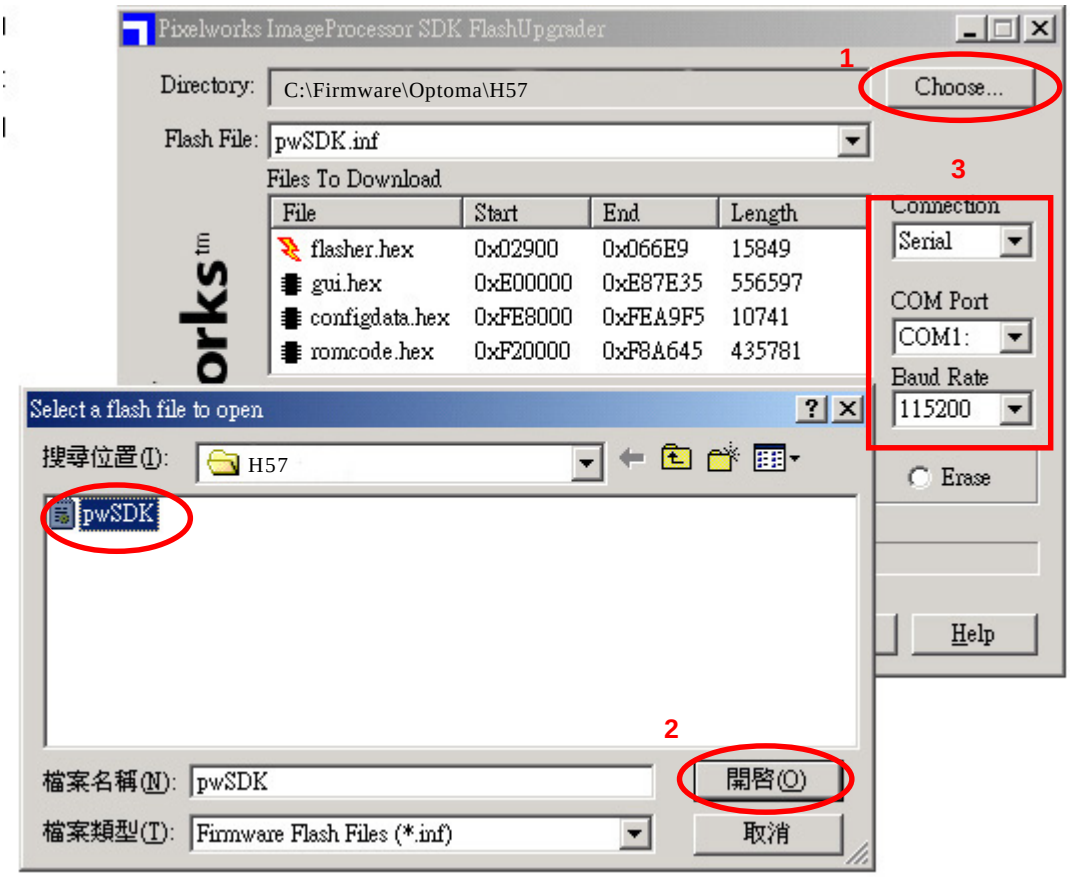
Step1. Execute the “FlashUpgrader.exe” program.

名稱
大小
類型
修改日期
configdata.hex 29 KB HEX 檔案 2004/6/16 下午 07:04
flasher.hex 44 KB HEX 檔案 2004/5/25 下午 05:39
FlashUpgrader 320 KB 應用程式 2003/6/21 下午 10:09
gui.hex 1,495 KB HEX 檔案 2004/6/17 下午 06:10
pwSDK 2 KB 安裝資訊 2002/11/8 上午 09:06
romcode.hex 1,203 KB HEX 檔案 2004/6/17 下午 06:12

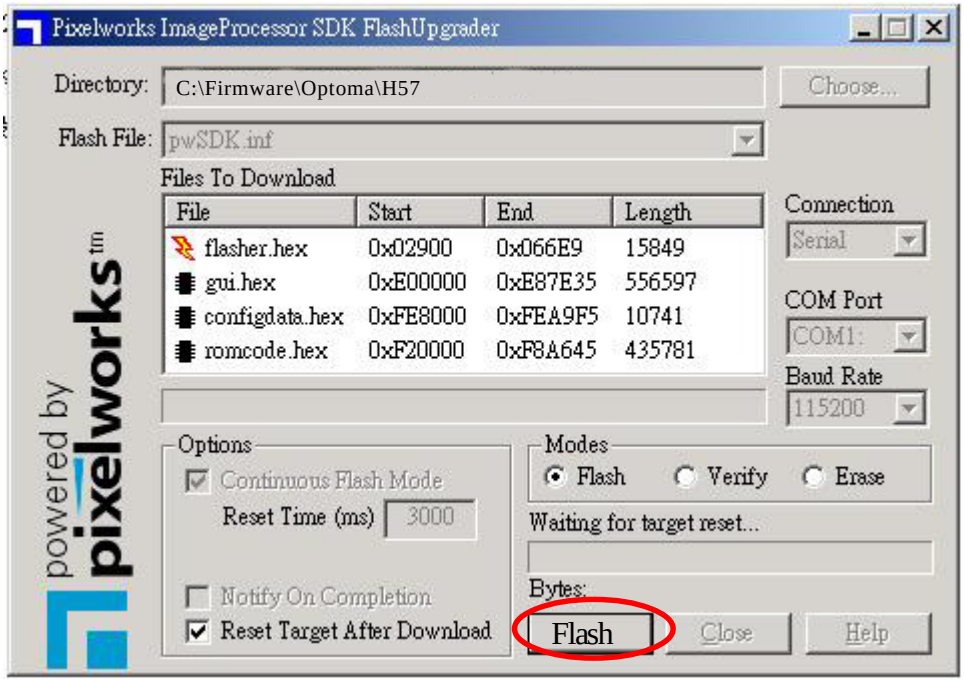
Step2. 1. Click ”Choose” to get the file directory

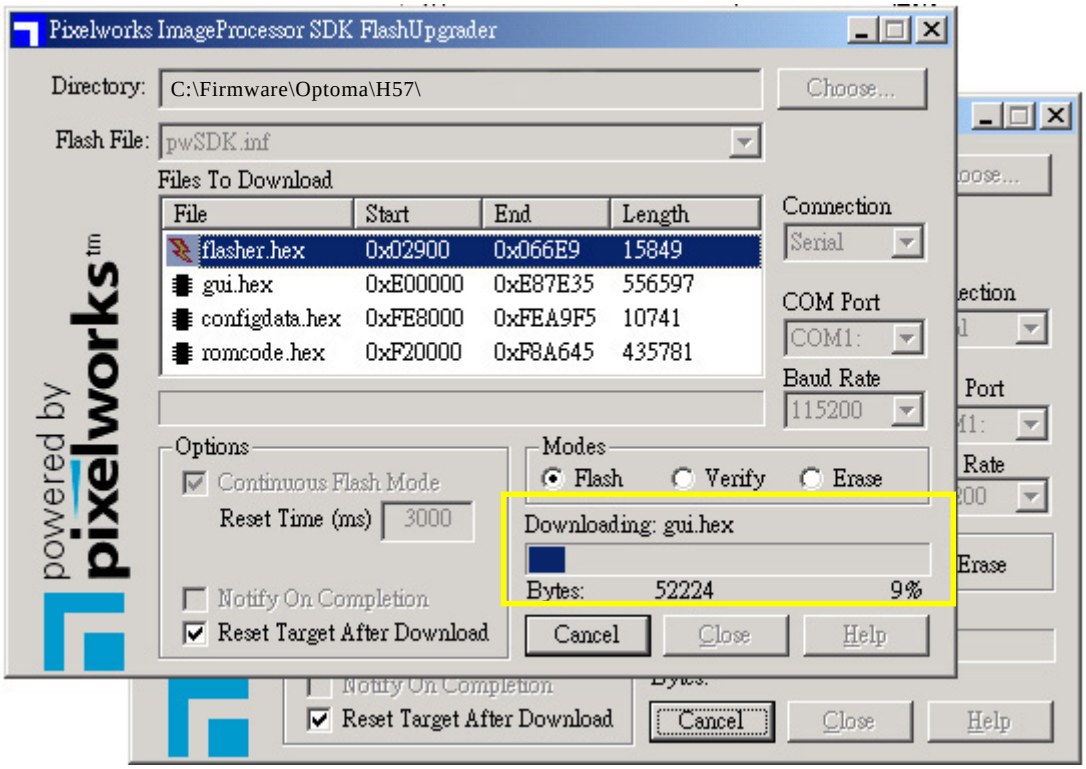
2. Select <pwSDK.inf> file and open it.

3. Select the Serial port in Connection field, COM1: in COM Port field and 115200 in Baud Rate field.



Step3. Click “Flash” to start the firmware upgrade procedure and keep press the projector’s power button immediately until download “gui.hex” to 10%.





Step4. After downloading all files, enter the engineering mode to check the F/W version. (Refer to 4-1)

Chapter 6

DDC Key-in Procedure

6-1 Equipment Needed

- PC or Laptop (OS:Windows98 or Windows Me)
- EDID Fixture
- DFP to DVI Cable
- Power Adapter
- RS-232 Cable
- VGA Cable
- Power Cord
- DDC Driver
- H57

6-2 Setup Procedure

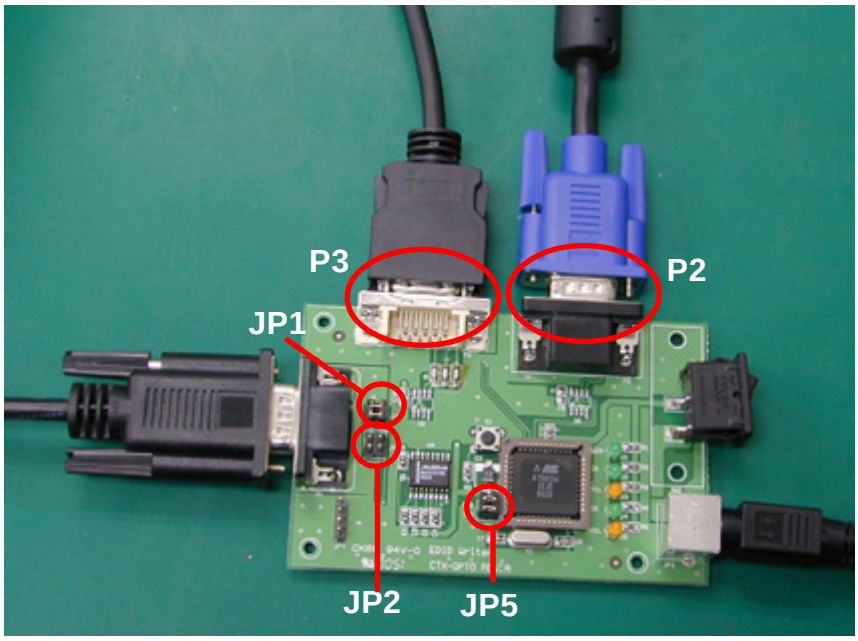
Step1. Connect Power Adapter with fixture.

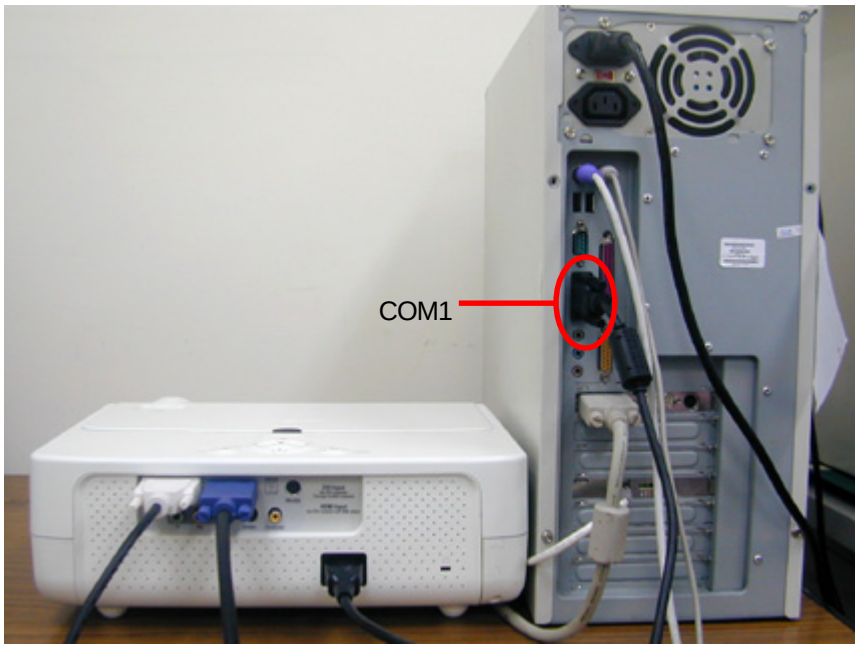
Step2. Make sure the JP1and JP5 are close and JP2 is open.

Step3. Connect P2 of the fixture with VGA Port of H57 by the VGA Cable.

Step4. Connect P3 of the fixture with DVI Port of H57 by the DFP to DVI cable.

Step5. Turn on the power of the fixture.

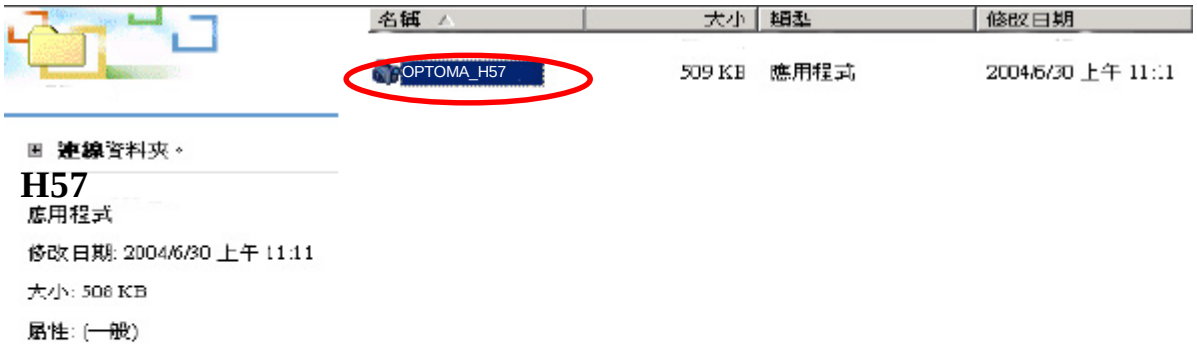




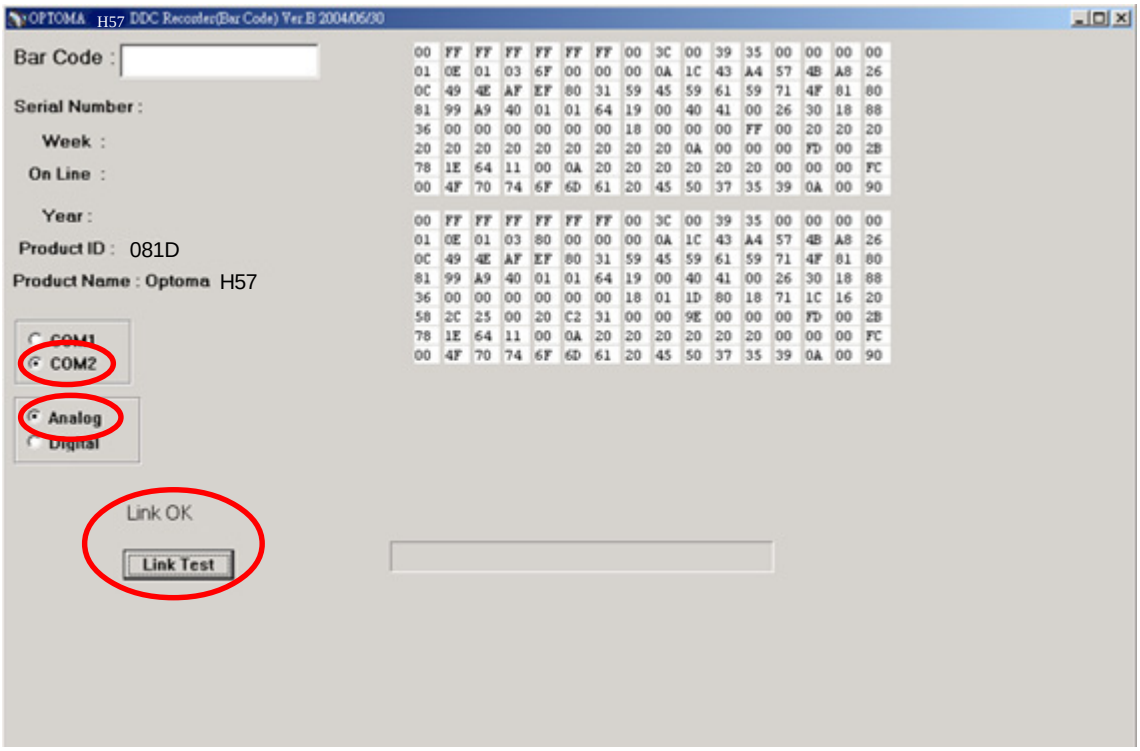
6-3 DDC Key-in Procedure

6-3.1 Analog

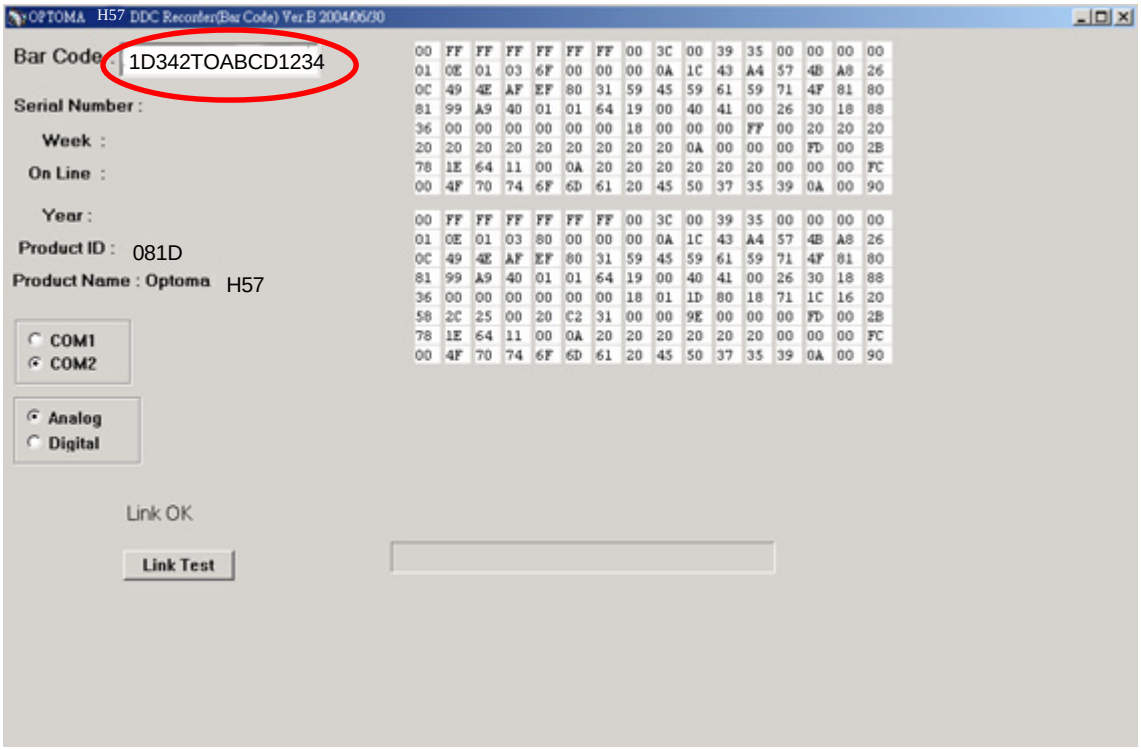
Step1. Execute “H57_EDID_B” program.



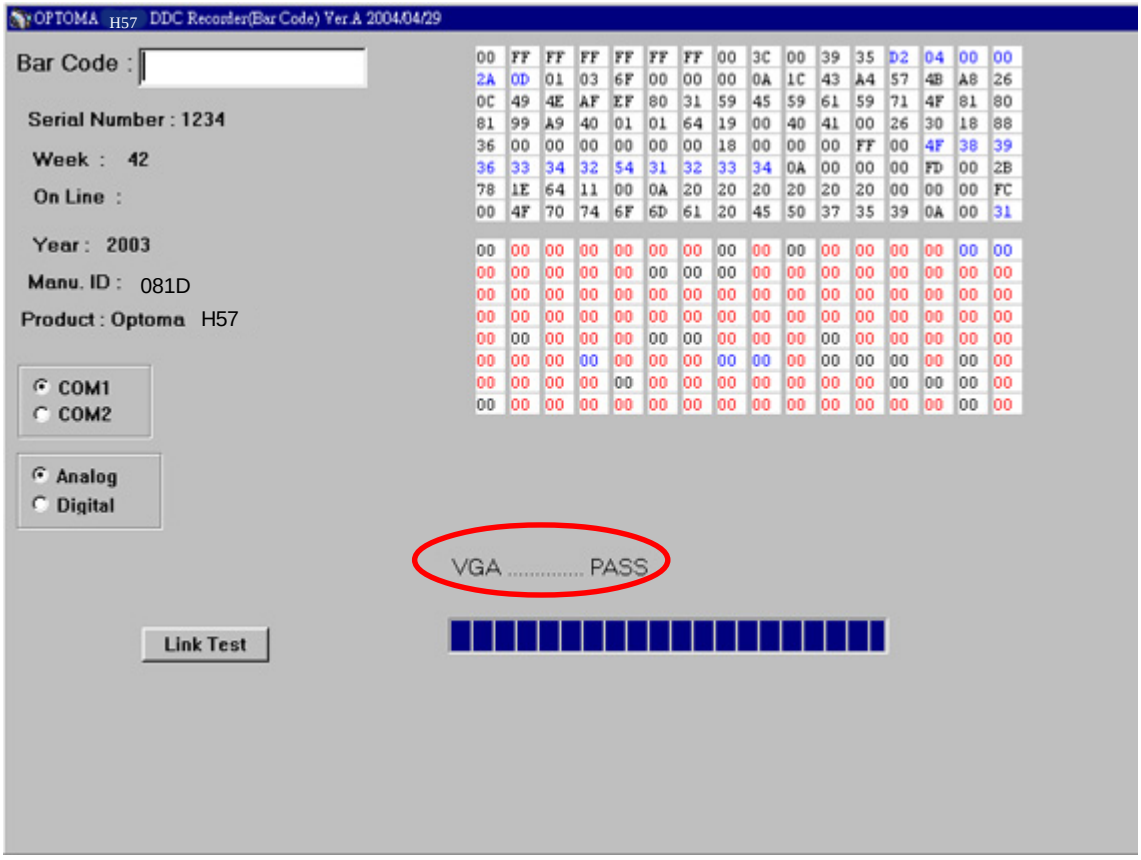
Step2. Mark sure the COM port is connected ok.
Choose the “Analog” to do Analog DDC procedure.



Step3. Key-in S/N in to the blank beside Barcode, and then press “Enter” key on the keyboard to begin programming.

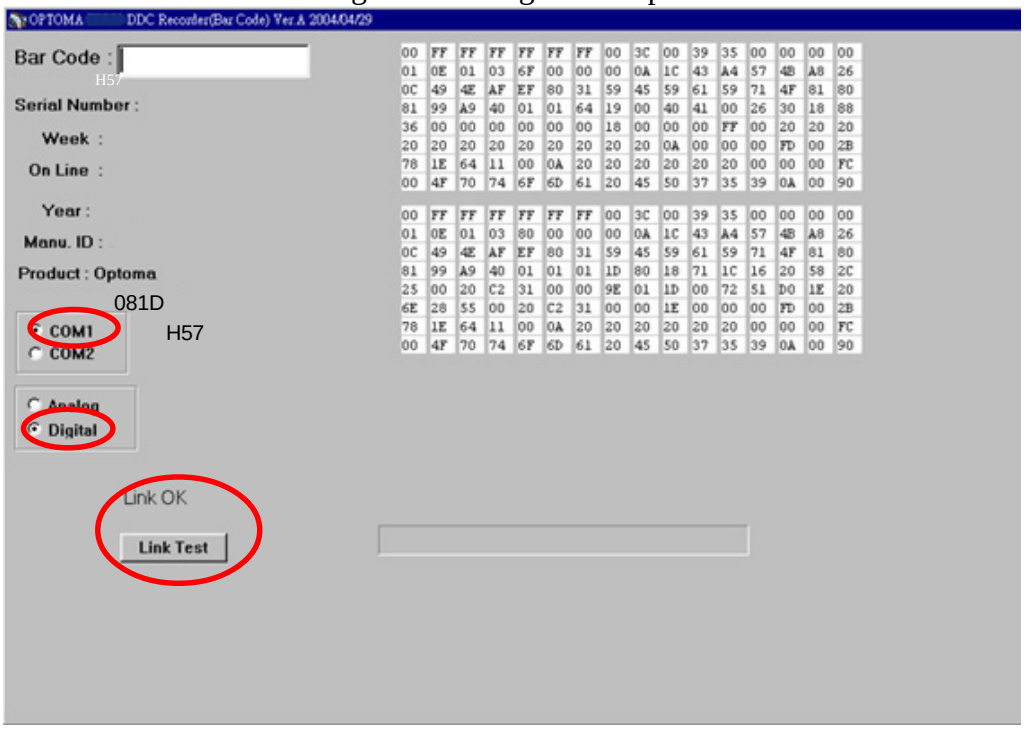


Step4. After finishing the above action, “PASS” message will appear on the screen.

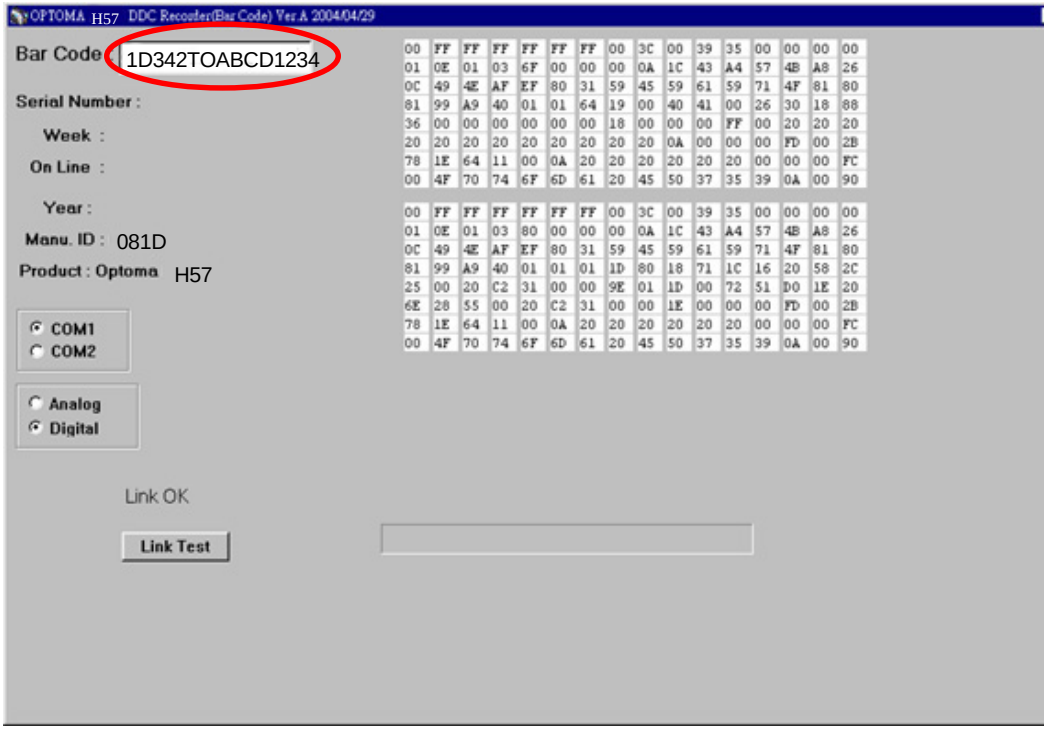


6-3.2 Digital

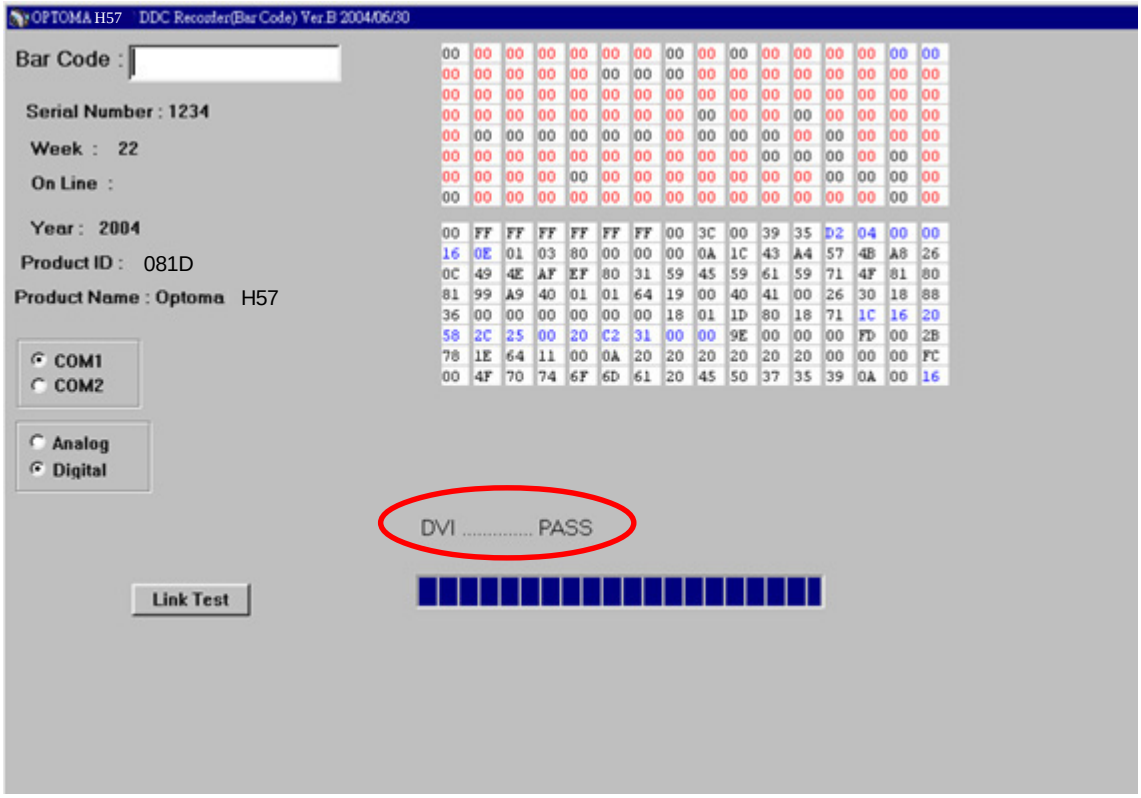
Step1. Mark sure the COM port is connected ok.
Choose the “Digital” to do Digital DDC procedure.



Step2. Key-in S/N in to the blank beside Barcode, and then press “Enter” key on the keyboard to begin programming.



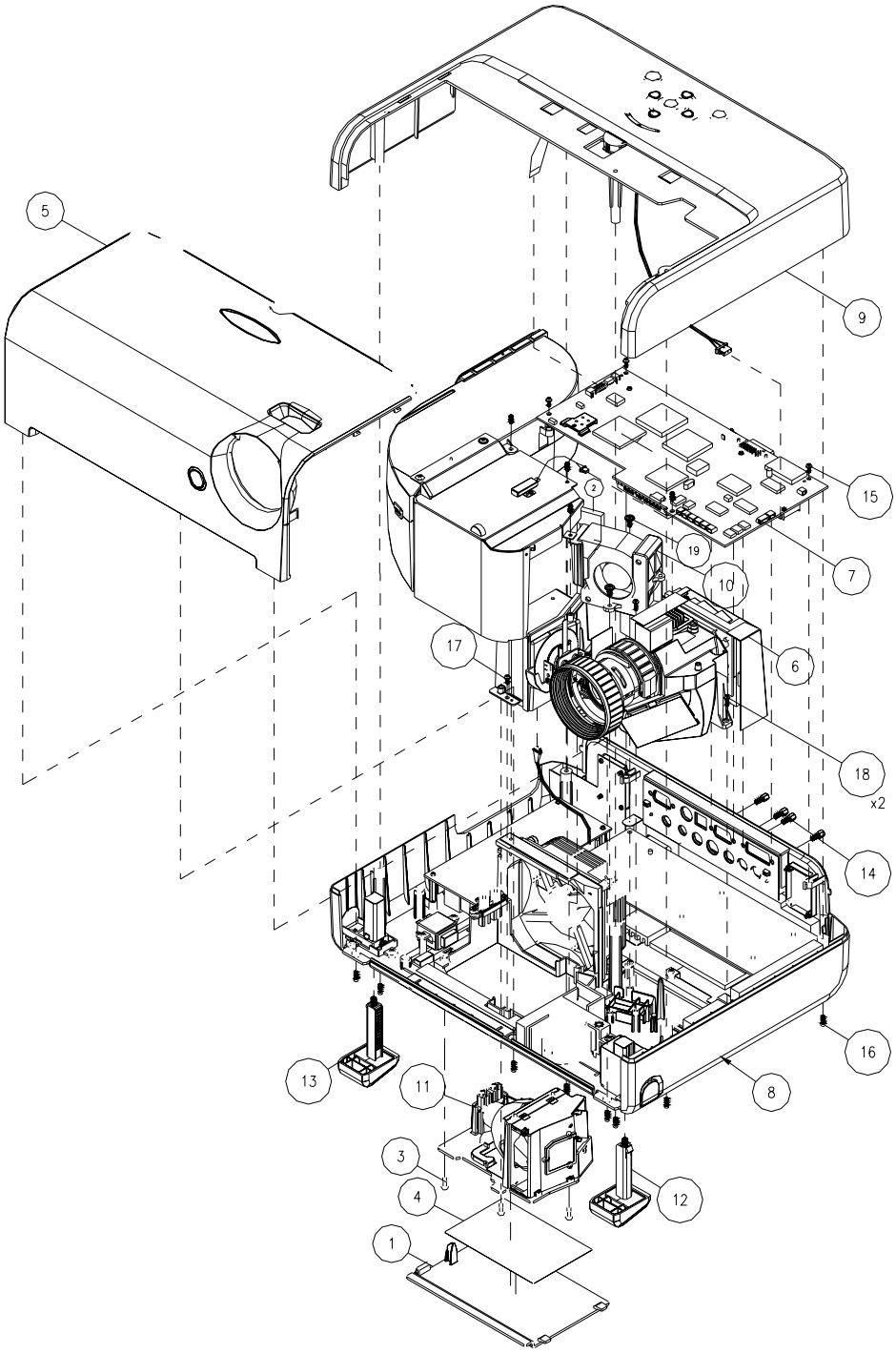
Step3. After finishing the above action, “PASS” message will appear on the screen.



Appendix A

Exploded Overview

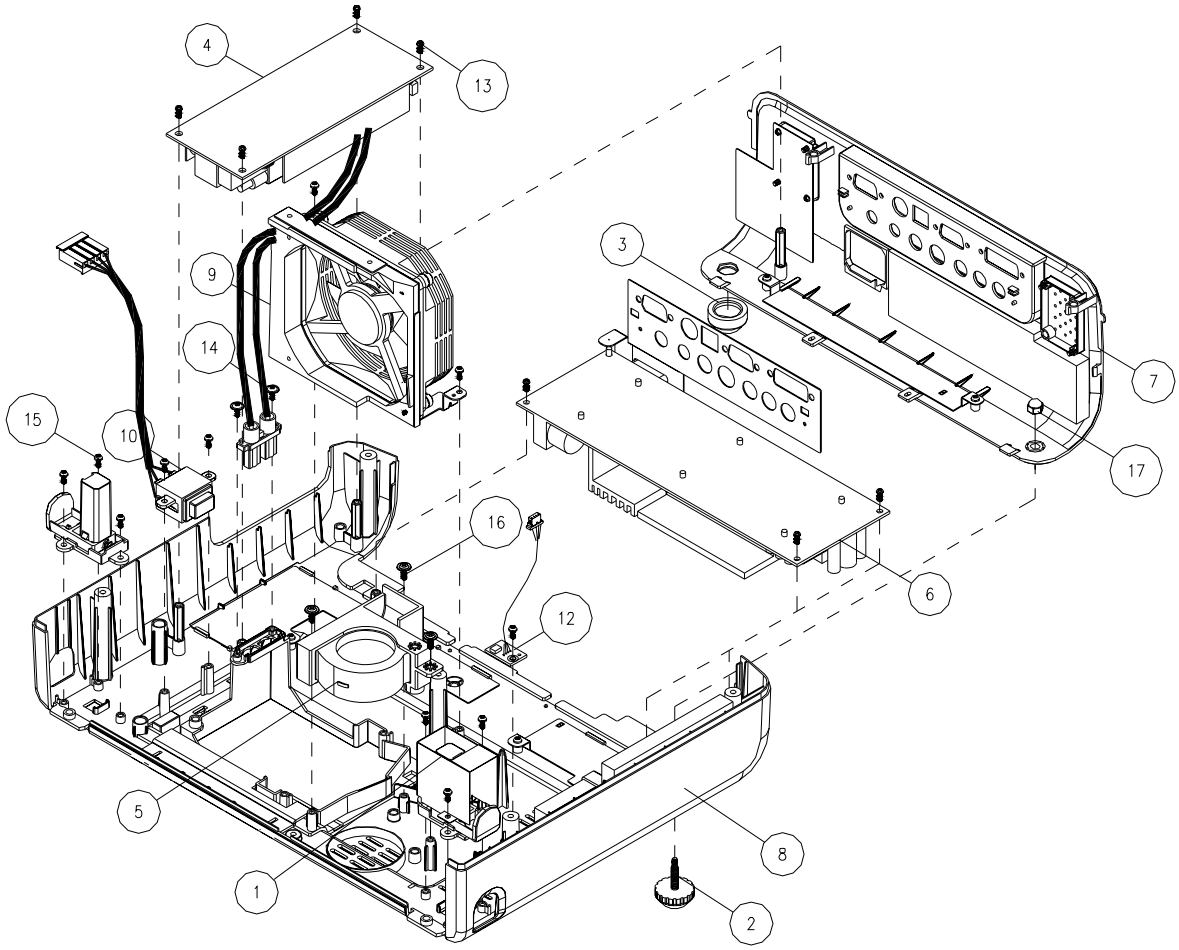
I. H57



Exploded Parts List of H57

19	85.WD123.080	SCREW PAN TAP M3*8 W/WASHER Ni	3	
18	85.WA123.080	SCREW PAN TAP M3*8 (Ni)	2	
17	85.WA123.060	SCREW PAN TAP M3*6 (Ni)	4	
16	85.1A123.080	SCREW PAN MECH M3*8 NI	8	
15	85.1A123.060	SCREW PAN MECH M3*6 NI	6	
14	85.005AG.408	SCREW HEX I/O #4-40 H4xL8 Ni NYLOK	4	
13	70.81D12.001	ASSY ELEVATOR FOOT LEFT MODULE H57	1	
12	70.81D11.001	ASSY ELEVATOR FOOT RIGHT MODULE H57	1	
11	70.81D05.001	ASSY LAMP CHANGER MODULE H57	1	
10	70.81D18.001	ASSY BLOWER FAN 59X25 MODULE H57	1	
9	70.81D15.001	ASSY TOP COVER MODULE H57	1	
8	70.81D01.001	ASSY BOTTOM HOUSING MODULE H57	1	
7	70.81C08.001	ASSY MAIN BOARD MODULE EP758	1	
6	70.81D02.001	ASSY ENGINE MODULE H57; YO PARTS	1	
5	70.81D03.001	ASSY FRONT COVER MODULE H57	1	
4	61.89641.001	LAMP COVER AL FOIL 0.1t EP759	1	
3	61.00018.002	LOCK SCREW PAN MECH M3*8.5-3.5 B	3	
2	52.89611.001	DUCT RUBBER EP759	1	
1	51.89607.021	LAMP COVER NORYL N300 H57	1	
ITEM	PART_NO	PART_NAME	Q'TY	REMARK

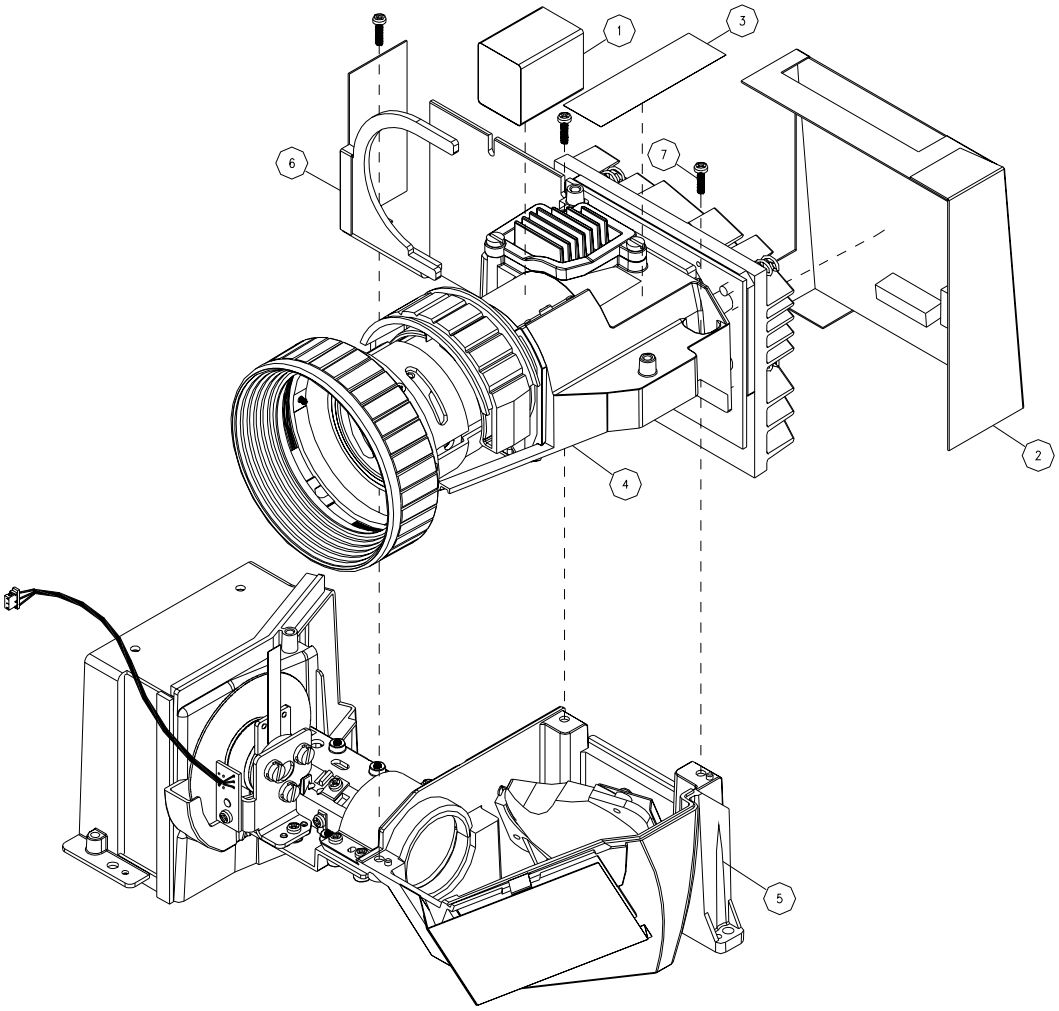
II. H57 Bottom Housing Module



Exploded Parts List of H57 Bottom Housing Module

17	86.03123.035	HEX CAP HEAD M3*0.5P L3.5 Ni	1	
16	85.WD123.080	SCREW PAN TAP M3*8 W/WASHER Ni	3	
15	85.WA123.060	SCREW PAN TAP M3*6 (Ni)	11	
14	85.TA326.070	SCREW CAP TAP M2.6*7 WASHER BLACK	2	
13	85.1A123.060	SCREW PAN MECH M3*6 NI	7	
12	80.83405.001	PCBA THERMAL SENSOR BD EzPro 730/735 ID=90	1	
11	75.81D05.001	ASSY PRE ELEVATOR MODULE H57	2	
10	70.89612.001	ASSY INTERRUPT SWITCH MODULE EP759	1	
9	70.89606.001	ASSY AXIAL FAN 92x25 MODULE EP759	1	
8	70.81D14.001	ASSY BOTTOM COVER MODULE H57	1	
7	70.81D04.001	ASSY BACK COVER MODULE H57	1	
6	70.81C11.001	ASSY LVPS MODULE EP758	1	
5	70.81C05.001	ASSY BLOWER FAN 50X20 MODULE EP758	1	
4	70.81C03.001	ASSY LAMP DRIVER MODULE	1	
3	52.89605.021	REAR FOOT RUBBER H57	1	
2	52.89601.021	ADJUST FOOT RUBBER H57	1	
1	51.89633.001	ELEVATOR SHADING MYLAR EP759	1	
ITEM	PART_NO	PART_NAME	Q'TY	REMARK

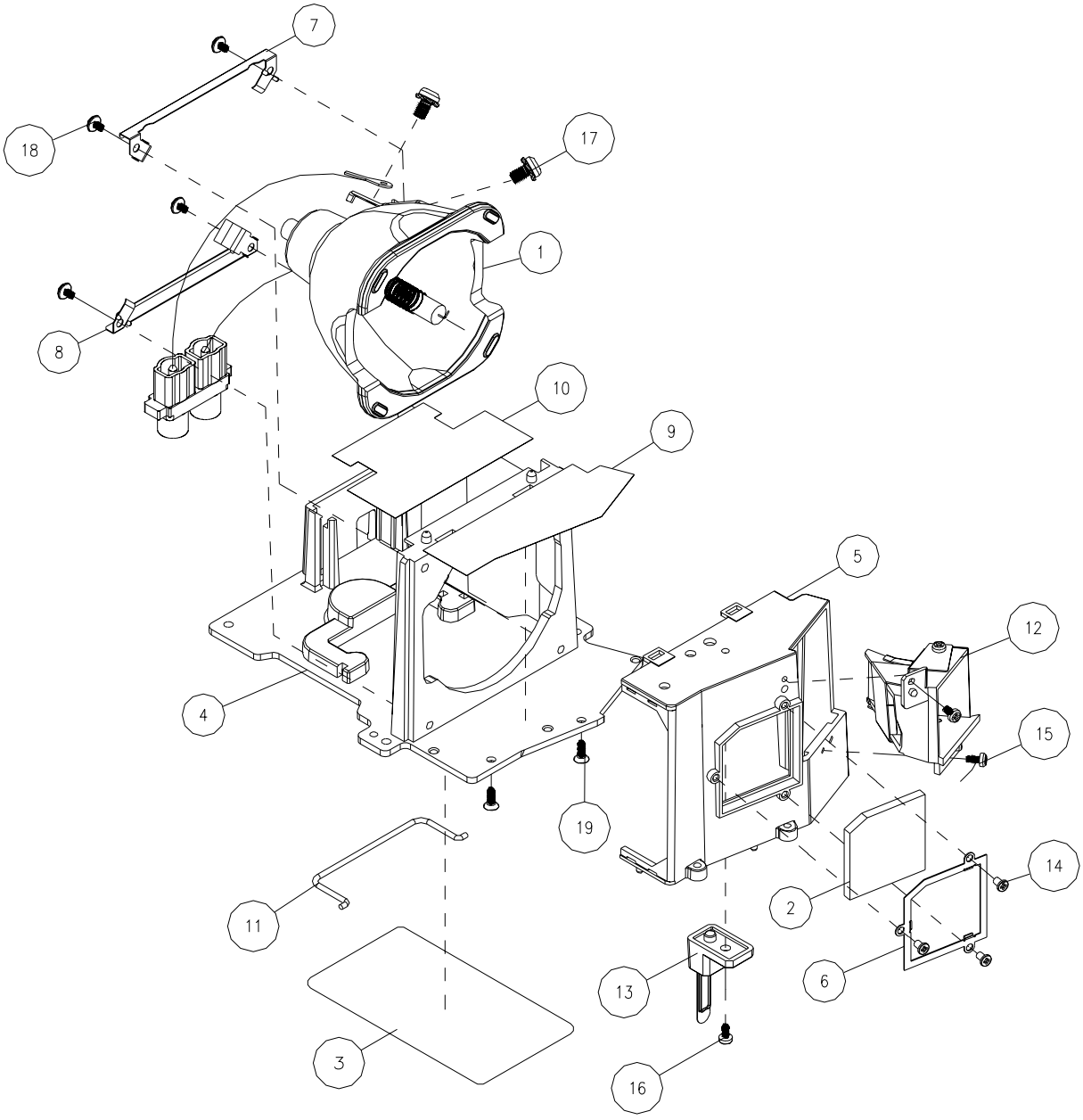
III. H57 Enigne Module



Exploded Parts List of H57 Engine Module

7	85.1A126.080	SCREW PAN MECH M2.6x8 Ni	3	
6	70.89628.001	ASSY CONVERSION SUPPORTER EP759	1	
5	70.81D08.001	ASSY ENGINE BASE MODULE H57	1	
4	70.81D07.001	ASSY OPTICAL ENGINE MODULE H57	1	
3	61.89646.001	EMI BRASS-SHEET FOR ENGINE EP759	1	
2	51.81C02.001	WIND GUIDER COVER MYLAR	1	
1	41.89601.001	EMI GASKET FRONT TO ENGINE EP759	1	
ITEM	PART_NO	PART_NAME	Q'TY	REMARK

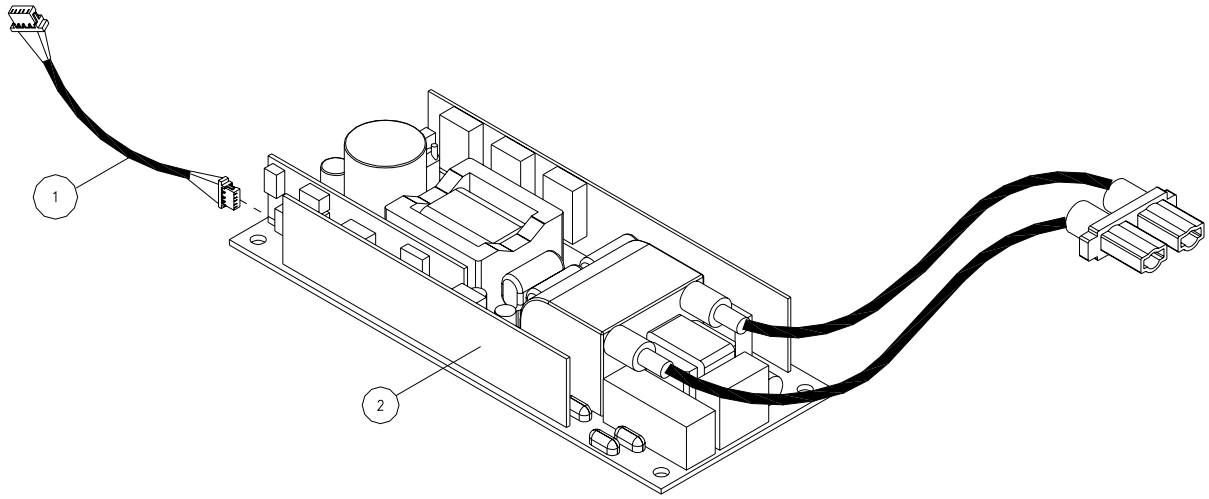
IV. H57 Lamp Changer Module



Exploded Parts List of H57 Lamp Changer Module

19	85.4A326.060	SCREW FLAT MECH M2.6*6 BLACK	2	
18	85.1D122.030	SCREW PAN MECH M2*3 Ni (W/WASHER D5.0)	4	
17	85.1C123.060	SCREW PAN MECH W/T M3x6 Ni	2	
16	85.1A126.040	SCREW PAN MECH M2.6x4 Ni	1	
15	85.1A122.040	SCREW PAN MECH M2x4 Ni	2	
14	85.0A122.030	SCREW DOBULE FLAT MECH M2*3 Ni	3	
13	70.81D17.001	ASSY LAMP TIP SHIELD MODULE H57	1	
12	70.81D16.001	ASSY DUCT MODULE H57	1	
11	61.89639.001	LAMP EXCHANGE HANDLER FOR EP759	1	
10	61.89637.001	LAMP CHANGER AL FOIL BACK EP759	1	
9	61.89636.001	LAMP CHANGER AL FOIL FRONT EP759	1	
8	61.89619.001	LAMP CLIP PUSH SUS301 0.25t EP759	1	
7	61.89618.002	LAMP CLIP HOLDER SUS301 0.25t EP759	1	
6	61.89606.001	UV-IR BRACKET SPRING SUS301 0.3t EP759	1	
5	61.89603.021	LAMP MESH HOLDER Mg ALLOY AZ91D H57	1	
4	51.89621.001	LAMP CHANGER PPS EP759	1	
3	35.81C02.001	LAMP WARNING LABEL 250W FOR EP758	1	
2	23.89610G002	BOROFLOAT UV-IR SQUARE t2.75mm "GREEN"	1	
1	23.89515.012	PHILIPS 250W 1.35 ARC E21.8 DELL	1	
ITEM	PART_NO	PART_NAME	Q'TY	REMARK

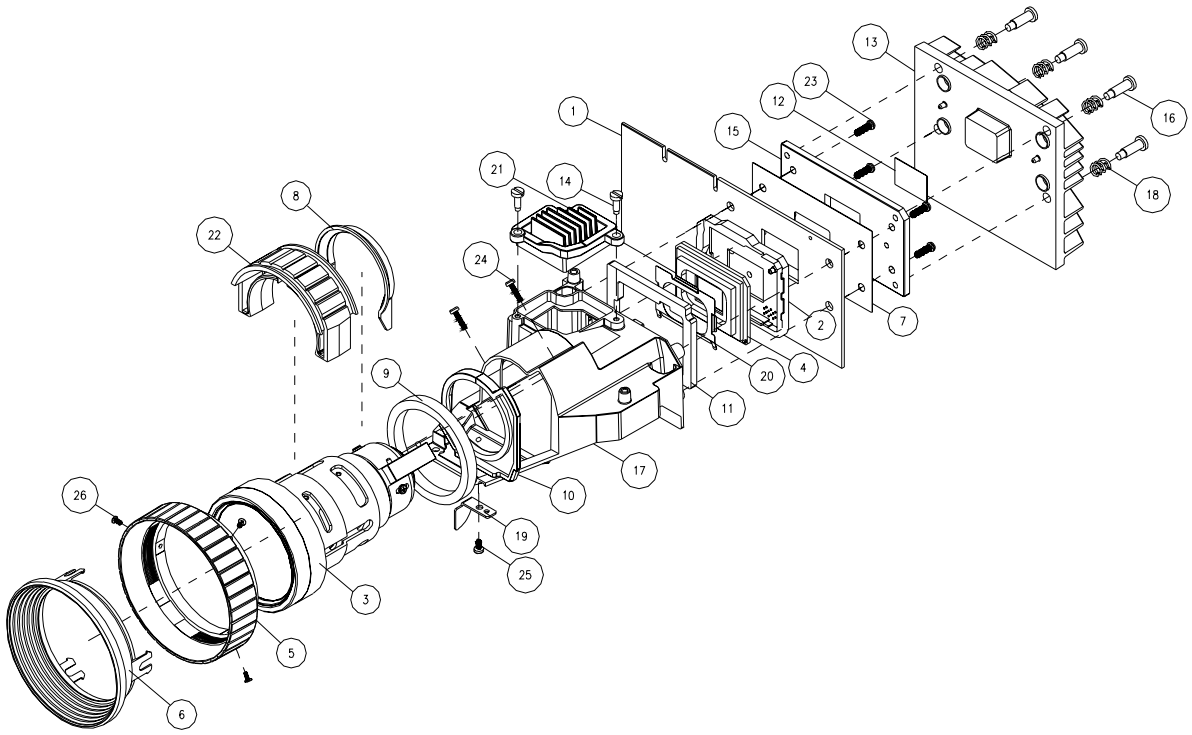
V. H57 Lamp Driver Module



Exploded Parts List of H57 Lamp Driver Module

2	75.L1302.001	ASSY LAMP BALLAST 250W EUC250P/H01 280mm	1	
1	42.81C02.001	W.A. 5P #28 140mm BALLAST/MAIN BD EP758	1	
ITEM	PART NO	PART NAME	Q'TY	REMARK

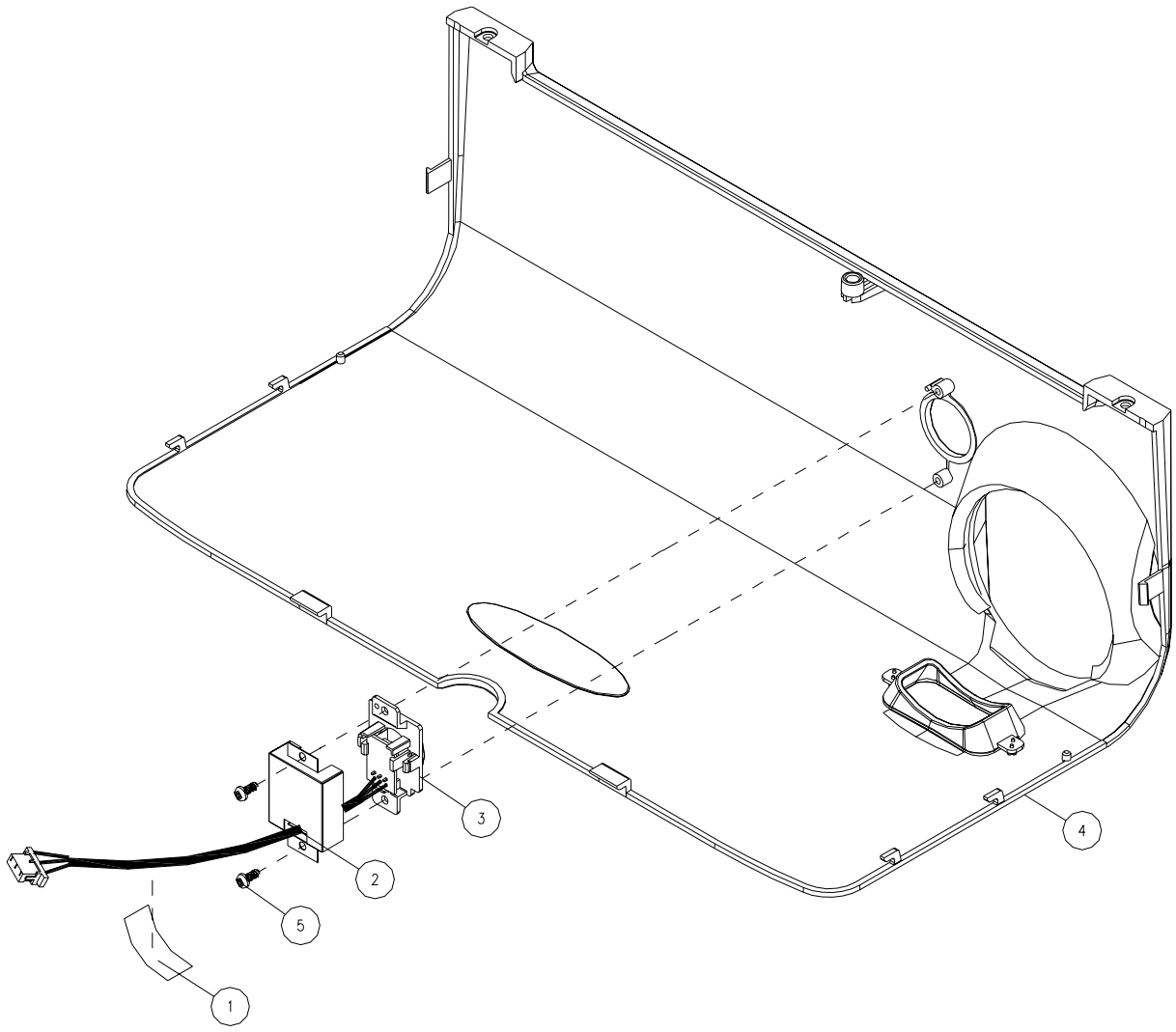
VI. H57 Optical Lens Module



Exploded Parts List of H57 Optical Lens Module

ITEM	PART_NO	PART_NAME	Q'TY	REMARK
26	85.YA121.035	SCREW FLAT HEAD TAP M1.7*3.5 Ni	3	
25	85.1A626.040	SCREW PAN MECH M2.6x4 BLACK NYLON	1	
24	85.1A126.080	SCREW PAN MECH M2.6x8 Ni	2	
23	85.1A123.080	SCREW PAN MECH M3*8 NI	4	
22	75.81D02.001	ASSY ZOOM RING MODULE H57	1	
21	70.89627.001	ASSY OFFRAY HEATSINK MODULE EP759	1	
20	61.89643.001	DMD MASK SUS301 0.1t BLACK EP759	1	
19	61.89631.001	MASK BRACKET AL 0.8t EP759	1	
18	61.89630.001	HEATSINK SPRING EP759	4	
17	61.89627.001	ENGINE COVER Mg ALLOY AZ91D EP759	1	
16	61.89626.001	HEATSINK SCREW EP759	4	
15	61.89605.001	DMD BACKER PLATE AL 3.0t EP759	1	
14	61.85926.001	COLOR WHEEL SCREW SB21	2	
13	61.81C01.001	EP758 DMD HEATSINK	1	
12	52.89633G001	THERMAL PAD FOR HEAT SINK 17x13x0.3mm EP759	1	
11	52.89627.001	DMD SEAL RUBBER F12 3.2t EP759	1	
10	52.89613.001	ENGINE SEAL RUBBER EP759	1	
9	52.81D01.001	PROJECTION LENS SPACE H57	1	
8	51.89628.001	ZOOM STOP RING PC+ABS CH6310 EP759	1	
7	51.89627.001	DMD INSULATION MYLAR EP759	1	
6	51.89626.021	REPLACE RING PC+ABS C6200 H57	1	
5	51.89608.021	FOCUS RING PC+ABS C6200 H57	1	
4	48.81DDM.D01	DMD 1024X576 PIXEL DDR	1	
3	23.80Y01.011	PROT FPL05 0.55" SVGA PROJECTION LENS, ZOOM RATIO:1.2,THROW RATIO:2.0~2.4	1	
2	11.009F0.005	CNNT F 166P FOR 0.55' SVGA LGA DMD SOCKET;FOXCONN	1	
1	00.89603.001	BARE PCB L:6 1.7mm DMD BOARD EP759	1	

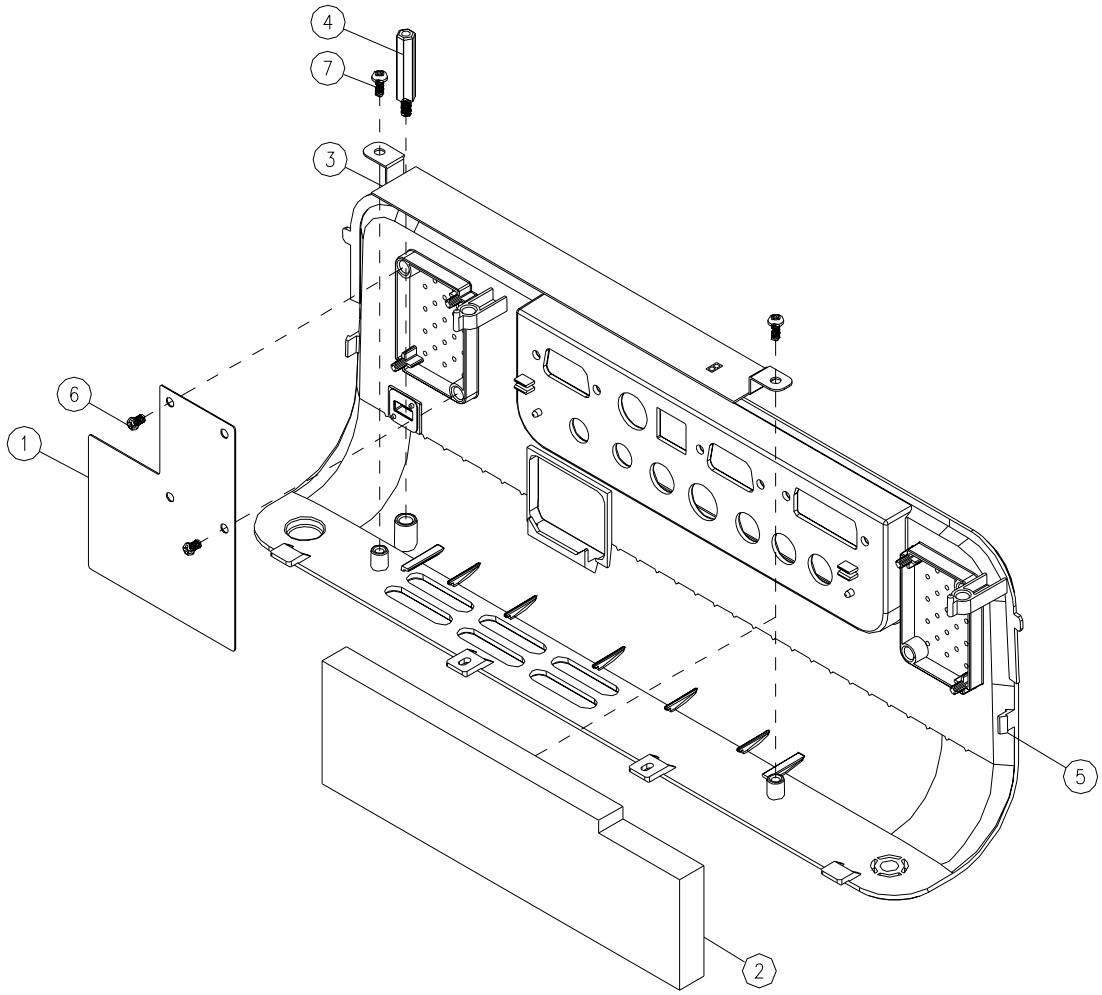
VII. H57 Front Cover Module



Exploded Parts List of H57 Front Cover Module

ITEM	PART_NO	PART_NAME	Q'TY	REMARK
5	85.WA123.060	SCREW PAN TAP M3*6 (Ni)	2	
4	75.81D01.001	ASSY FRONT COVER MODULE H57	1	
3	70.89611.001	ASSY IR SENSOR MODULE EP759	1	
2	51.89636.001	FRONT COVER ANTI LIGHT MYLAR EP759	1	
1	51.81541.001	TAPE 3M J350 17x30mm	1	

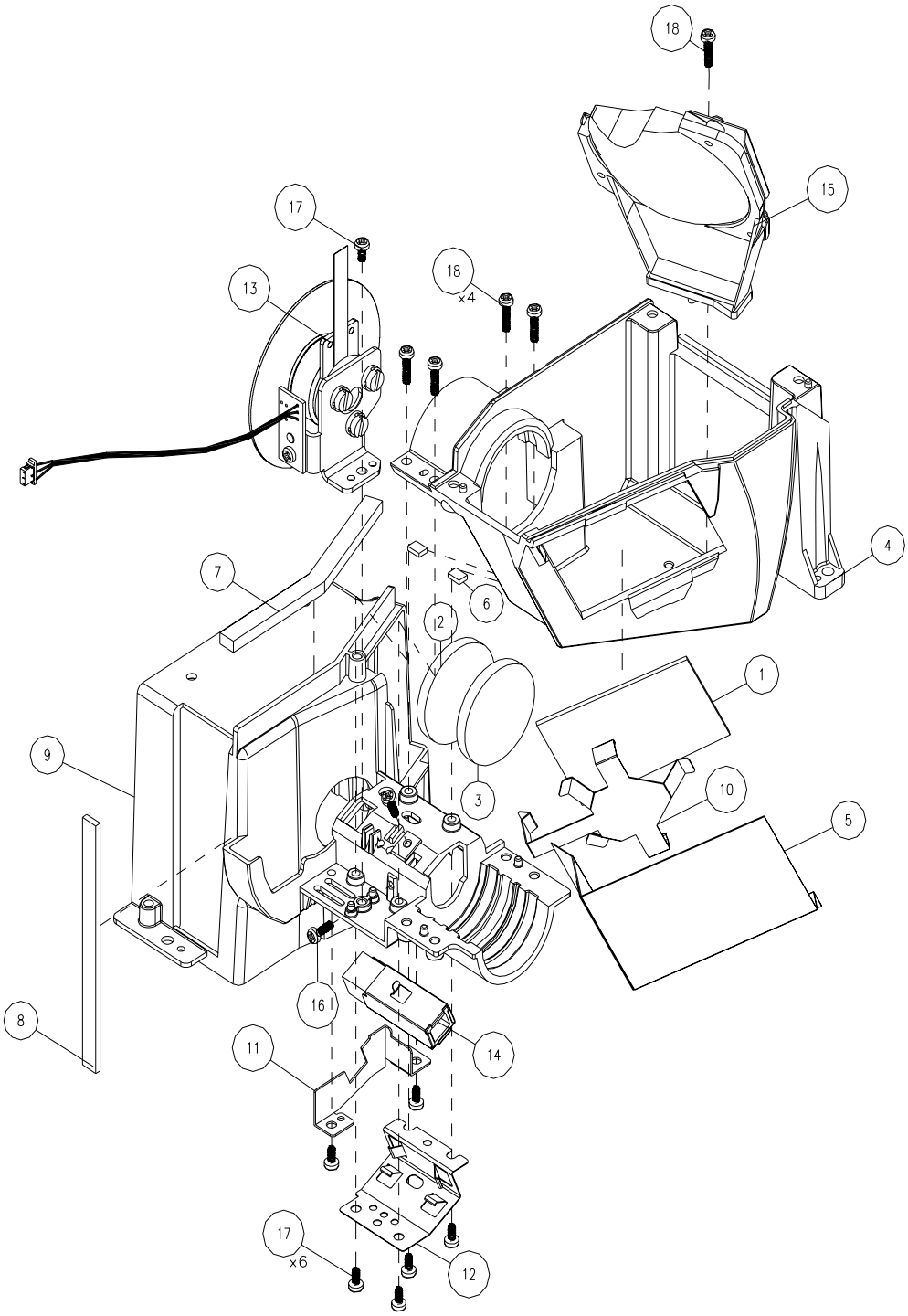
VIII. H57 Back Cover Module



Exploded Parts List of H57 Back Cover Module

7	85.WA123.060	SCREW PAN TAP M3*6 (Ni)	2	
6	85.1A123.040	SCREW PAN MECH M3*4 Ni	2	
5	75.89606.001	ASSY BACK COVER EP759	1	
4	61.89634.001	HEX SPACER M3 H=23mm L=6mm BRASS EP759	1	
3	61.89629.001	MESH FOR BACK COVER EP759	1	
2	52.89617.001	IO COVER SPONGE FOR NOISE EP759	1	
1	51.81D03.001	SPEAKER LIGHTCUT FORMAX H57	1	
ITEM	PART_NO	PART_NAME	Q'TY	REMARK

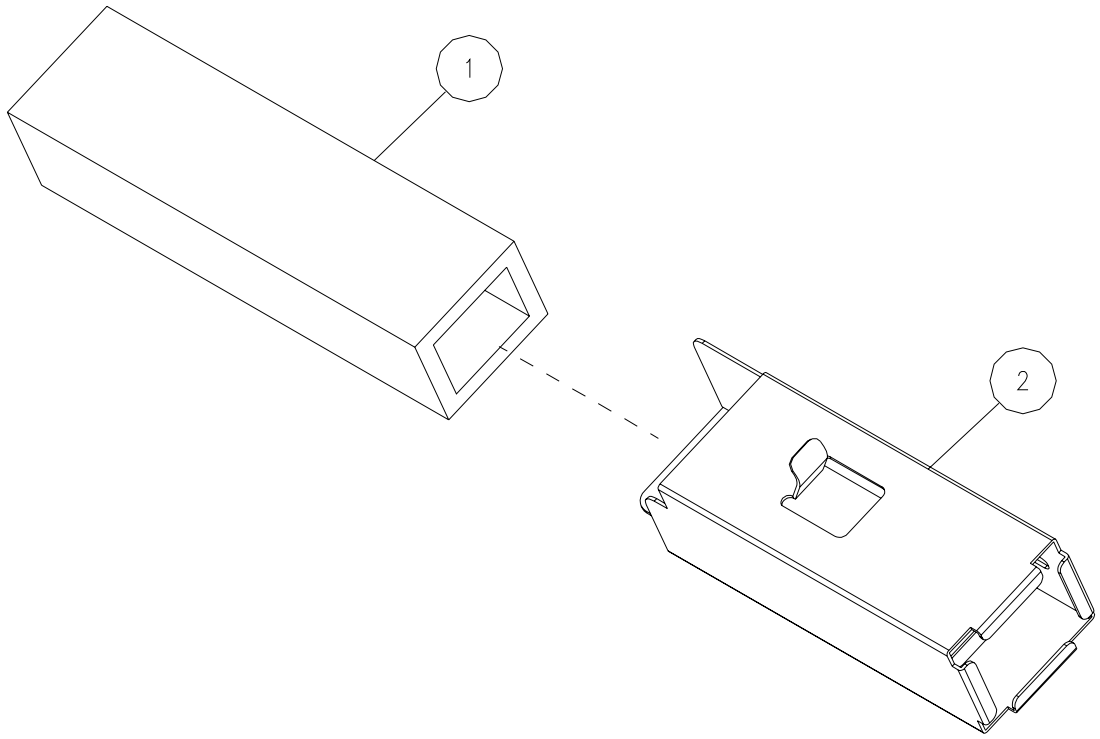
IX. H57 Engine Base Module



Exploded Parts List of H57 Engine Base Module

18	85.1A126.080	SCREW PAN MECH M2.6x8 Ni	5	
17	85.1A126.040	SCREW PAN MECH M2.6x4 Ni	7	
16	85.1A522.080	SCREW PAN MECH NYLOK M2x8 Ni	2	
15	70.89620.001	ASSY RELAY LENS MODULE EP759	1	
14	70.81D10.001	ASSY ROD MODULE H57	1	
13	70.81D09.001	ASSY COLOR WHEEL MODULE H57	1	
12	61.89621.001	ROD SPRING SUS301 0.2t EP759	1	
11	61.89617.001	ROD BRACKET AL 0.6t EP759	1	
10	61.89611.001	MIRROR SPRING PLATE SUS301 0.25t EP759	1	
9	61.89602.002	LAMP HOUSING Mg ALLOY AZ91D EP759	1	
8	52.89626.001	LAMP HOUSING STEAMTIGHT SIDE F12 1.6t EP759	1	
7	52.89625.001	LAMP HOUSING STEAMTIGHT TOP F12 3.2t EP759	1	
6	52.85808.001	PORON-LENS BLACK XB31	2	
5	51.89637.001	ENGINE MORROR ANTI LIGHT MYLAR EP759	1	
4	51.89614.001	ENGINE BASE BMC EP759	1	
3	23.89620G002	CONDENSER 2 ø26mm BK7 SPHERE;"GREEN"	1	
2	23.89620G001	CONDENSER 1 ø26mm BK7 SPHERE;"GREEN"	1	
1	23.89602G001	POLYGON MIRROR(t1.1mm);"GREEN"	1	
ITEM	PART_NO	PART_NAME	Q'TY	REMARK

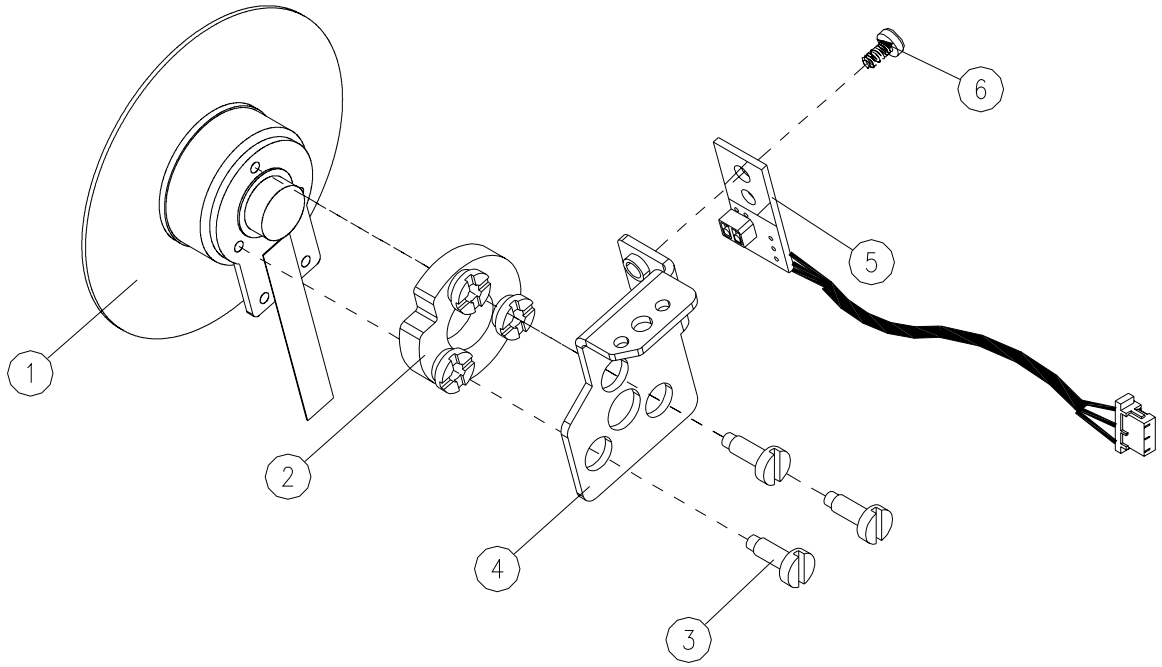
X. H57 Rod Module



Exploded Parts List of H57 Rod Module

ITEM	PART NO	PART NAME	Q'TY	REMARK
2	61.89620.001	ROD HOLDER SUS 301 0.2t EP759	1	
1	23.81D17G001	HOLLOW ROD 6.1mmx3.6mmx31.3mm(t1.1mm);"GREEN"	1	

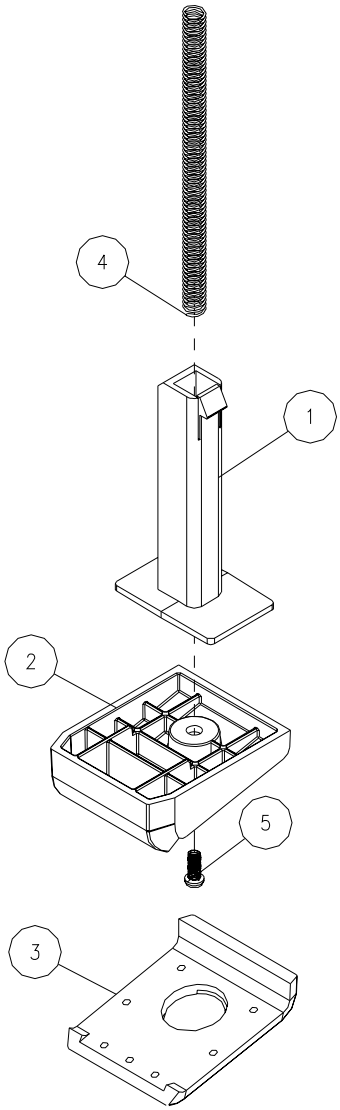
XI. H57 Color Wheel Module



Exploded Parts List of H57 Color Wheel Module

6	85.1A126.040	SCREW PAN MECH M2.6x4 Ni	1	
5	76.89602.001	ASSY PHOTO SENSOR MODULE	1	
4	61.89608.001	COLOR WHEEL BRACKET SECC 1.2t EP759	1	
3	61.85911.001	COLOR WHEEL SCREW 4100MP	3	
2	52.89606.001	COLOR WHEEL RUBBER EP759	1	
1	23.81D19.001	COLOR WHEEL ø48mm 6 SEGMENTS SLEEVE BEARING	1	
ITEM	PART NO	PART NAME	Q'TY	REMARK

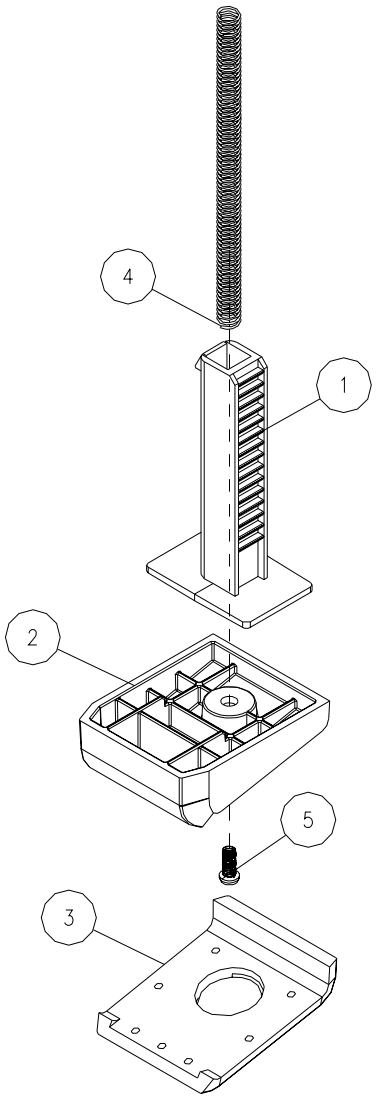
XII. H57 Elevator Foot Right Module



Exploded Parts List of H57 Elevator Foot Right Module

5	85.1A123.080	SCREW PAN MECH M3*8 Ni	1	
4	61.87220.001	ELEVATOR O.D4.5 W.D 0.3 L:65mm 3200MP	1	
3	52.89604.021	FRONT FOOT RUBBER H57	1	
2	51.89613.021	ELEVATOR FOOT PC+ABS C6200 H57	1	
1	51.89611.001	ELEVATOR BODY NYLON+GF EP759	1	
ITEM	PART NO	PART NAME	Q'TY	REMARK

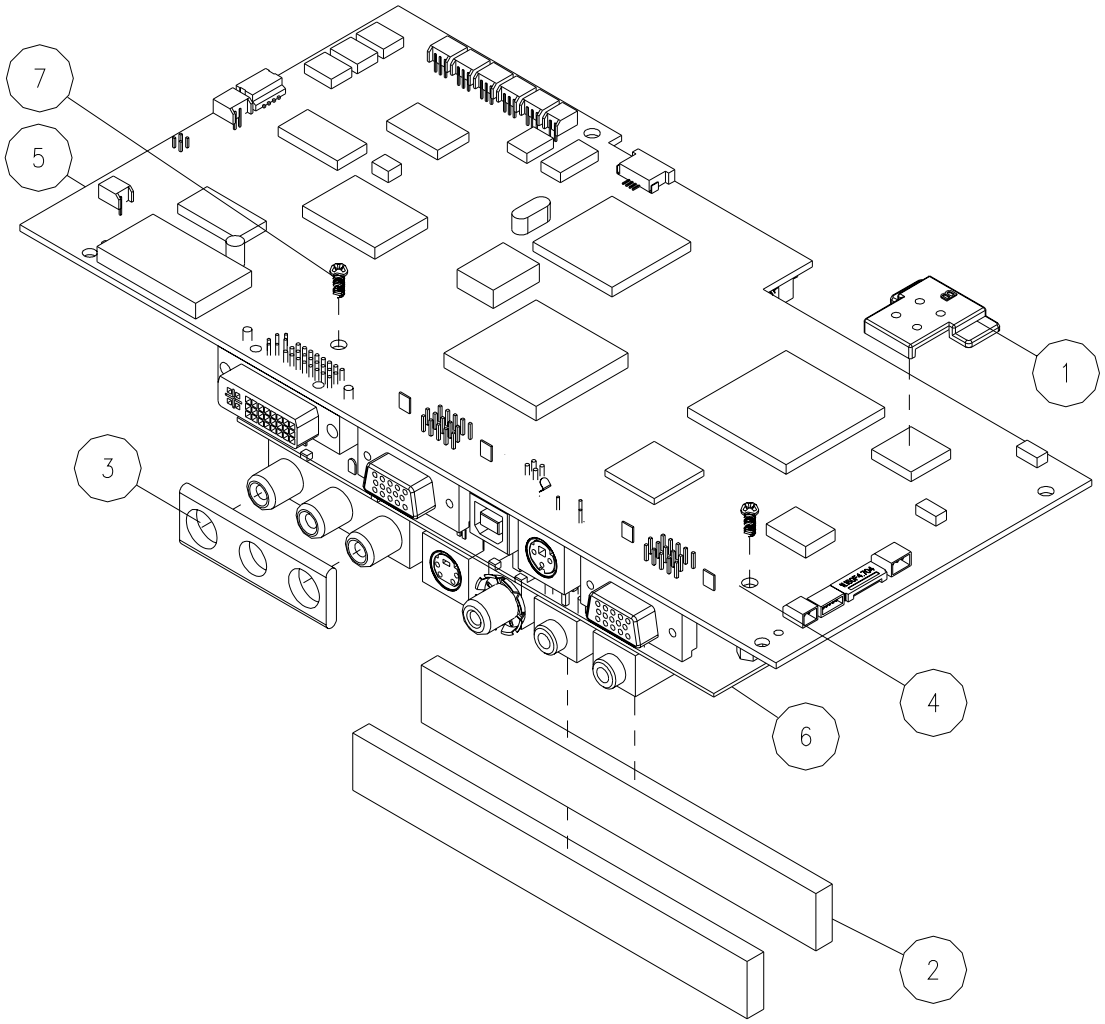
XIII. H57 Elevator Foot Left Module



Exploded Parts List of H57 Foot Left Module

5	85.1A123.080	SCREW PAN MECH M3*6 Ni NYLOK	1	
4	61.87220.001	ELEVATOR O.D4.5 W.D 0.3 L:65mm 3200MP	1	
3	52.89604.021	FRONT FOOT RUBBER H57	1	
2	51.89613.021	ELEVATOR FOOT PC+ABS C6200 H57	1	
1	51.89611.001	ELEVATOR BODY NYLON+GF EP759	1	
ITEM	PART NO	PART NAME	Q'TY	REMARK

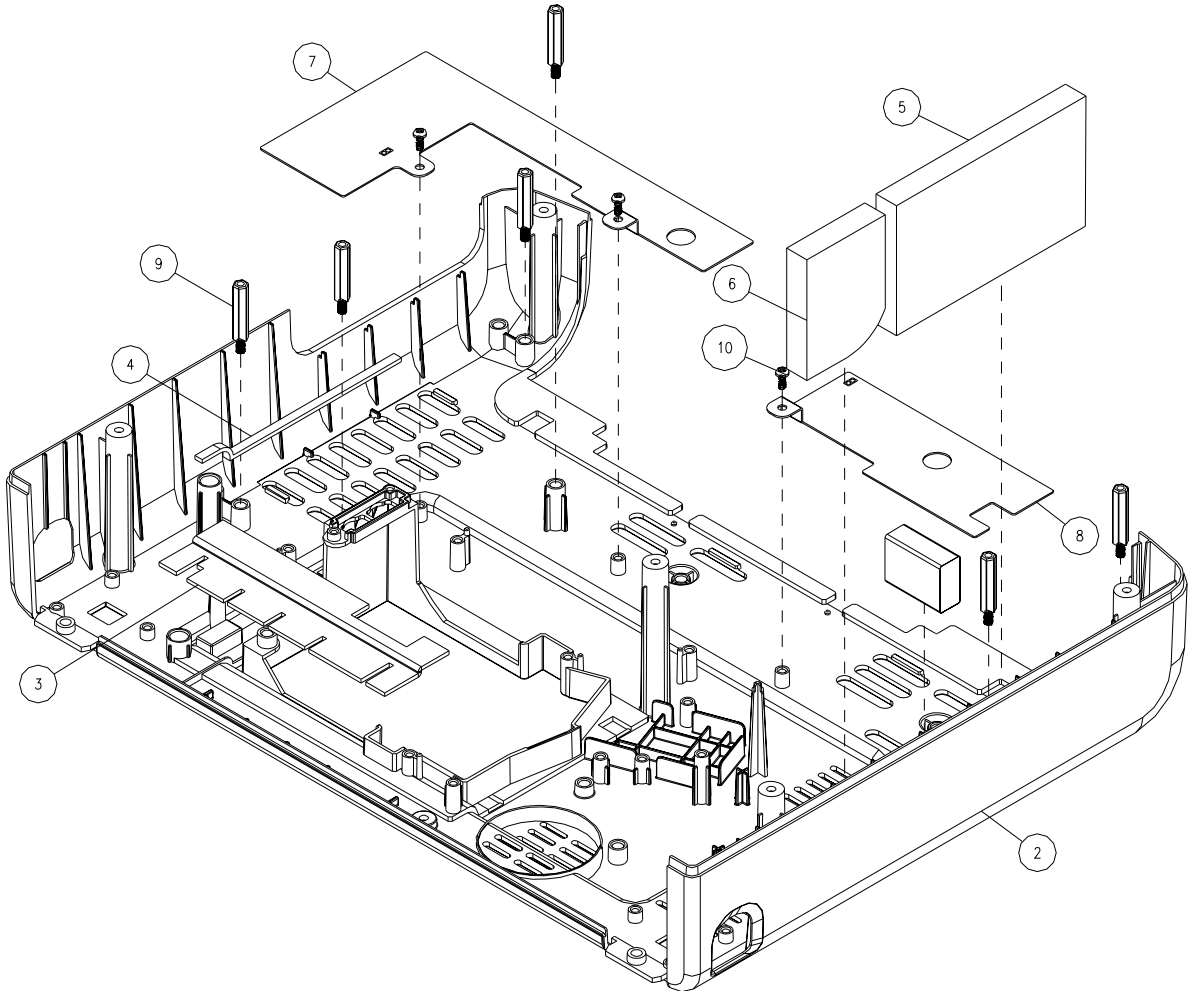
XIV. H57 Main Board Module



Exploded Parts List of H57 Main Board Module

7	85.1A123.060	SCREW PAN MECH M3*6 NI	2	
6	80.81D02.001	PCBA IO BOARD H57	1	
5	80.81D01.001	PCBA MAIN BOAD H57	1	
4	61.87331.001	STAND OFF Sn M3*H16 2100MP	2	
3	41.89603.001	EMI GASKET 43x15x3mm FOR IO BOARD EP759	1	
2	52.89621.001	ANTI LIGHT SPONGE MAIN BOARD EP759	2	
1	51.80B45.001	PROTECT COVER 3300MP	1	
ITEM	PART NO	PART NAME	Q'TY	REMARK

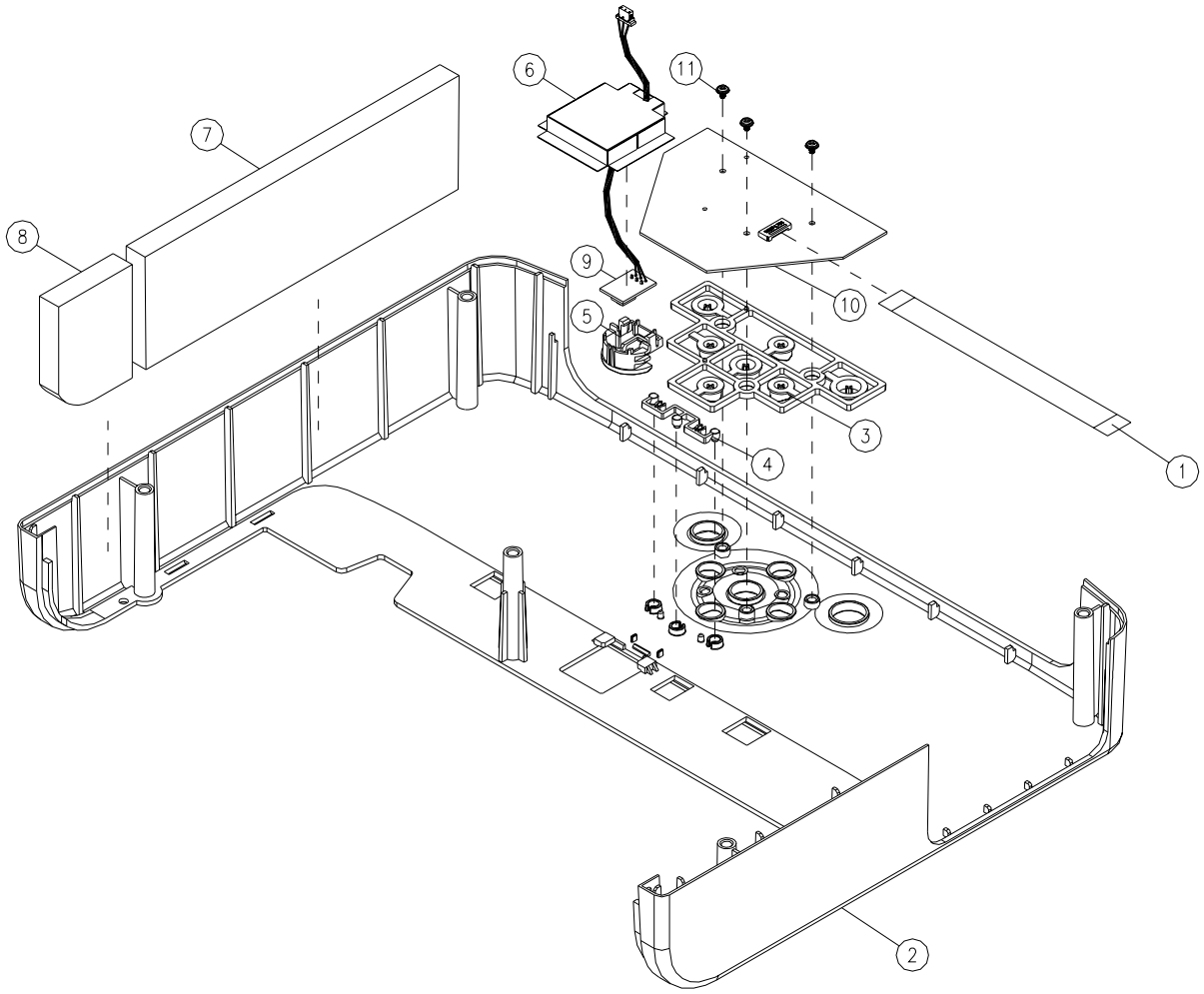
XV. H57 Bottom Cover Module



Exploded Parts List of H57 Bottom Cover Module

10	85.WA123.060	SCREW PAN TAP M3*6 Ni	3	
9	61.89634.001	HEX SPACER M3 H=23mm L=6mm BRASS EP759	6	
8	61.89632.001	MESH FOR BOTTOM COVER-2 IRON MESH 0.6t EP759	1	
7	61.89628.001	MESH FOR BOTTOM COVER EP759	1	
6	52.89620.001	TOP COVER SMALL SPONGE FOR NOISE EP759	1	
5	52.89618.001	BOTTOM COVER SPOGE FOR NOISE EP759	1	
4	52.89610.001	STEAMTIGHT NEAR WIND TUNNEL F12 EP759	1	
3	52.89609.001	STEAMTIGHT NEAR FAN GUIDER F12+AL FOIL EP759	1	
2	51.89602.021	BOTTOM COVER PC+ABS C6200 H57	1	
1	41.81C01.001	EMI GASTKET FOR DMD HEATSINK EP758	1	
ITEM	PART_NO	PART_NAME	Q'TY	REMARK

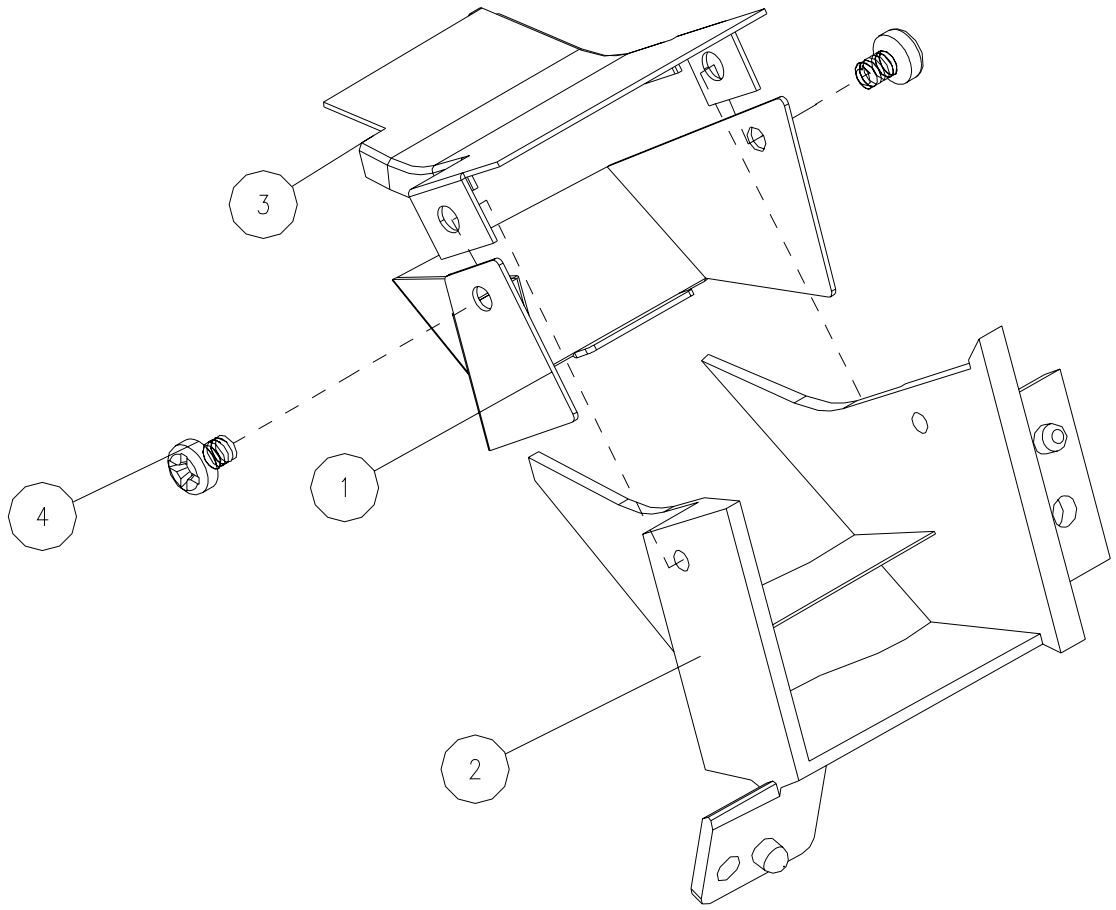
XVI. H57 Top Cover Module



Exploded Parts List of H57 Top Cover Module

11	85.1D122.030	SCREW PAN MECH M2*3 Ni (W/WASHER D5.0)	3	
10	80.89606.001	PCBA KEYPAD BOARD EP759	1	
9	76.88802.001	ASSY IR RECEIVER MODULE(BACK) IVY20S	1	
8	52.89620.001	TOP COVER SMALL SPONGE FOR NOISE EP759	1	
7	52.89619.001	TOP COVER SPONGE FOR NOISE EP759	1	
6	51.89635.001	TOP COVER ANTI LIGHT MYLAR EP759	1	
5	51.89619.001	IR LENS TOP PC EP759	1	
4	51.89606.001	LED LENS PC EP759	1	
3	51.89605.021	KEYPAD PC+ABS C6200 H57	1	
2	51.89601.021	TOP COVER PC+ABS C6200 H57	1	
1	42.89604.001	CABLE FFC 16P P=0.5 130mm IVY10X	1	
ITEM	PART_NO	PART_NAME	Q'TY	REMARK

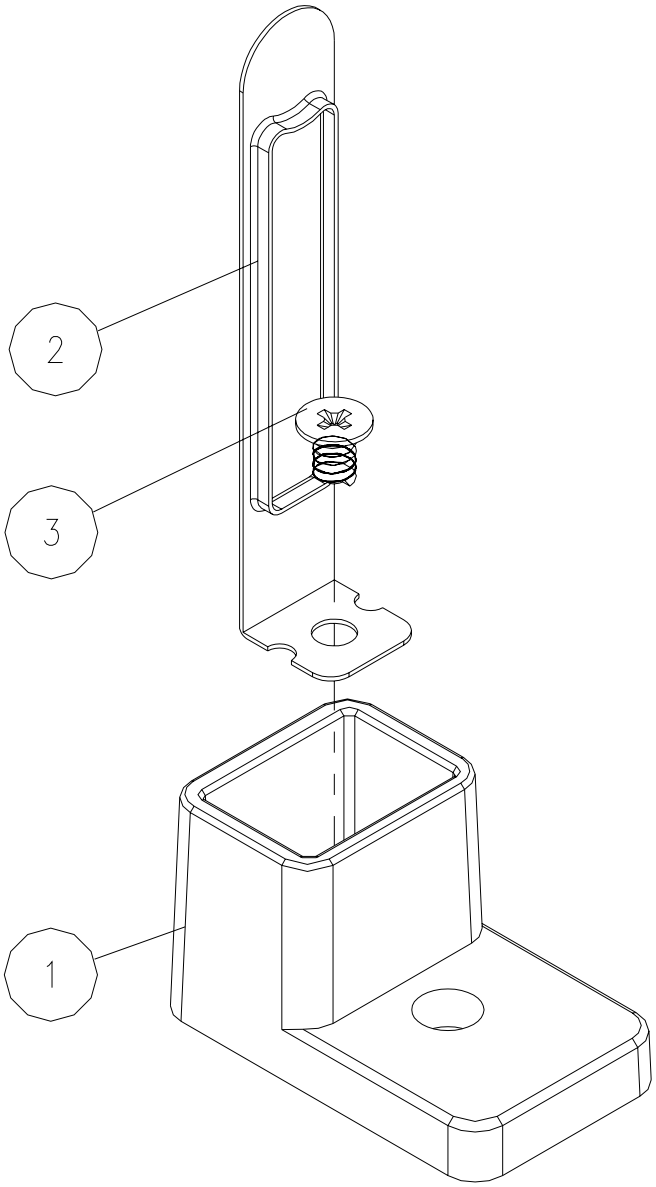
XVII. H57 Lamp Duct Module



Exploded Parts List of H57 Lamp Duct Module

4	85.1A322.030	SCREW PAN MECH M2*3 BLACK	2	
3	61.89624.001	59x25 BLOWER FAN DUCT COVER SUS301 0.2t EP759	1	
2	61.89623.001	59*59 BLOWER FAN DUCT AL EP759	1	
1	61.81D02.001	DUCT COVER H57	1	
ITEM	PART NO	PART NAME	Q'TY	REMARK

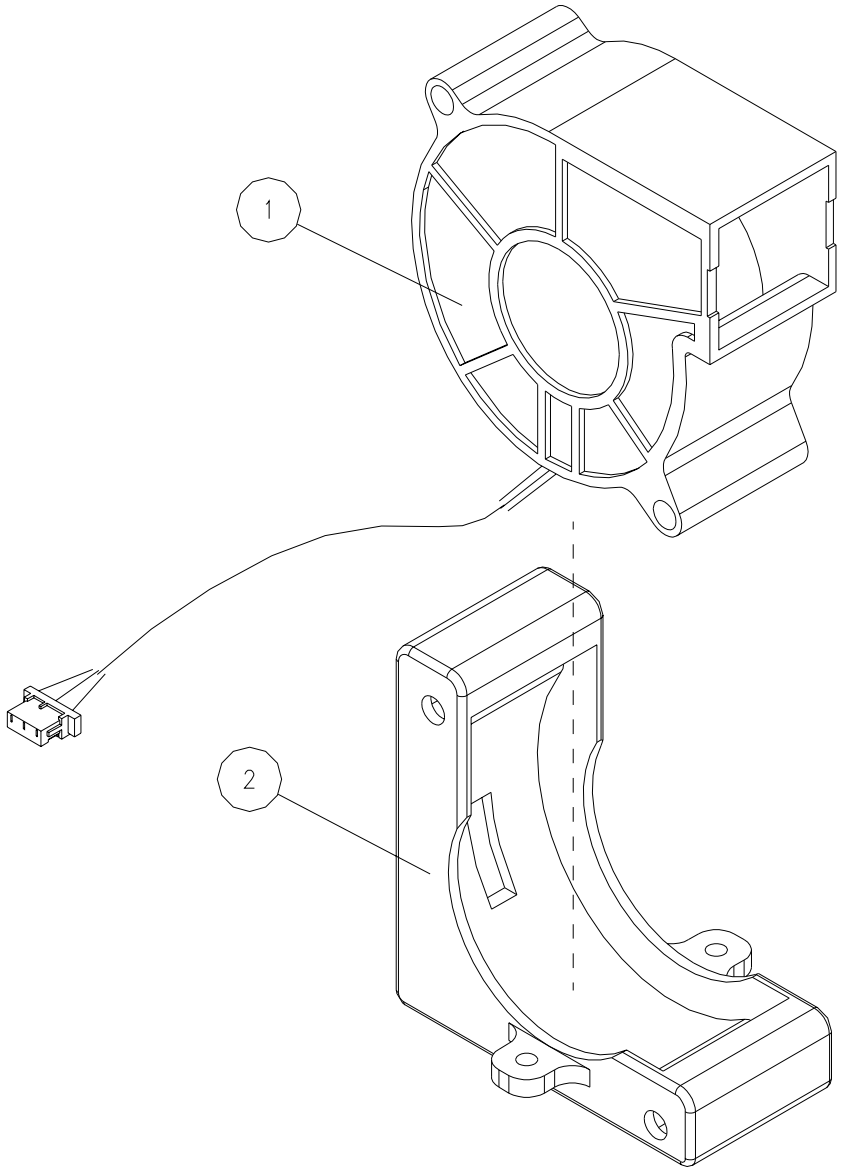
XVIII. H57 Lamp Tip Shield Module



Exploded Parts List of H57 Lamp Tip Shield Module

3	85.YA321.025	SCREW FLAT TAP M1.7*2.5 BLACK	1	
2	61.81D01.001	LAMP TIP SHIELD PLATE AL 0.4t H57	1	
1	51.81D01.001	LAMP TIP SHIELD PLATE HOLDER H57	1	
ITEM	PART NO	PART NAME	Q'TY	REMARK

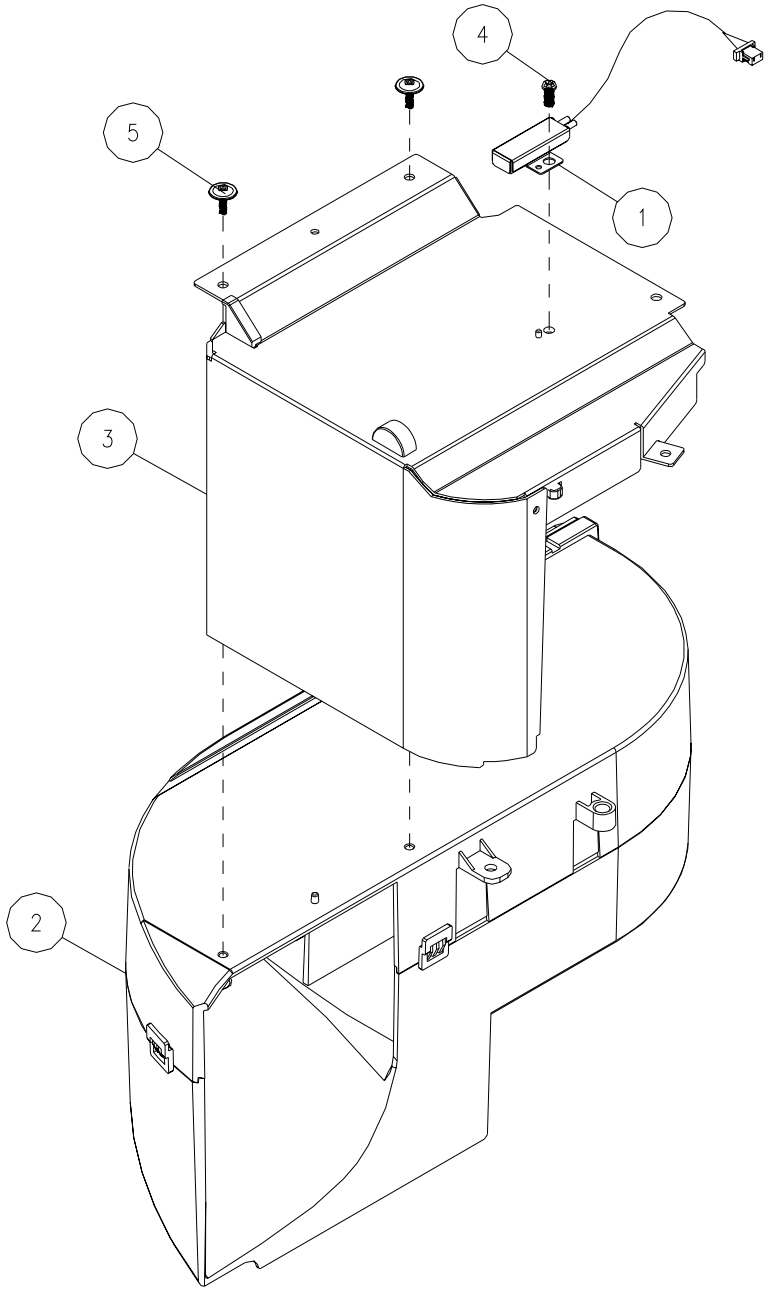
XIX. H57 Blower Fan 59X25 Module



Exploded Parts List of H57 Blower Fan 59X25 Module

2	52.89503.001	FAN595925 SILICON RUBBER 4100MP	1	
1	49.86602.002	NIDEC 59x25 BLOWER; D06F-12SS5 01B 250mm	1	
ITEM	PART NO	PART NAME	Q'TY	REMARK

XX. H57 Wind Tunnel & Fan Guider Cover Module



Exploded Parts List of H57 Wind Tunnel & Fan Guider Cover Module

5	85.TA326.070	SCREW CAP TAP M2.6*7 WASHER BLACK	2	
4	85.1A123.060	SCREW PAN MECH M3*6 NI	1	
3	75.89604.001	ASSY FAN GUIDER COVER MODULE EP759	1	
2	75.81D04.001	ASSY WIND TUNNEL MODULE H57	1	
1	43.87301.001	90c TI THERMAL SWITCH	1	
ITEM	PART NO	PART NAME	Q'TY	REMARK

Appendix B

Serial Number System Definition

Serial Number Format for Projector

A	BBB	Y	WW	C	D	BEMO	EEEE
①	②	③	④	⑤	⑥	⑦	⑧

① : O = Optoma

② : Product code (ex: 81D = H57, 896=EP759)

③ : Y = Last number of the year (ex: 2004 - 4)

④ : Week of year

⑤ : Panel vendor code

⑥ : Electrical classification (1=110V, 2=220V, 0=universal)

⑦ : B = BIOS version, E = PCB board version,
M = Mechanical version, O = Optical version

⑧ : Serial code (from 0001~)

EX1 : O81D429T0AAAA1001

This label “O81D429T0AAAA1001” represents the whole serial number for H57, including Ver. 1st of BIOS and Ver. 1 of PCB Board. Both mechanical and optical version are 1st. In addition, panel vendor is T1. It’s produced on 29-week of 2004 for universal area and its serial code is 1001.

Reader's Response

Dear Readers:

Thank you for your backing our service manual up. In order to refine our content of the service manual and satisfy your requirement. We expect you can offer us some precious opinions for reference.

Assessment:

A. What do you think about the content after reading H57 Service Manual?

Unit	Excellent	Good	Fair	Bad
1. Introduction				
2. Disassembly Procedure				
3. Troubleshooting				
4. Function Test & Alignment Procedure				
5. Firmware Upgrade Procedure				
6. DDC key-in Procedure				
7. Appendix				

B. Are you satisfied with the H57 service manual?

Item	Excellent	Good	Fair	Bad
1. Service Manual Content				
2. Service Manual Layout				
3. The form and listing				

C. Do you have any other opinion or suggestion about this service manual?

_____

_____

Reader's basic data:

Name:		Title:	
Company:			
Add:			
Tel:		Fax:	
E-mail:			

After your finishing this form, please send it back to Coretronic Customer Service Dept. by fax: 886-3-563-5333 or E-mail to service_lpp@coretronic.com Thanks :)